

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

A292.9

So3wa
Cop. 3



United States
Department of
Agriculture

Soil
Conservation
Service

Salt Lake City
Utah



WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department
of Natural Resources



June 1, 1984

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR UTAH

**and
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS**

Issued by

**PETER C. MYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.**

|||||

Released by

**FRANCIS T. HOLT
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH**

In Cooperation with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES	
DEE C. HANSEN	DANIEL F. LAWRENCE
State Engineer	Director
Division of Water Rights	Division of Water Resources

|||||

Report prepared by Snow Survey Staff





BOB L. WHALEY, Supervisor

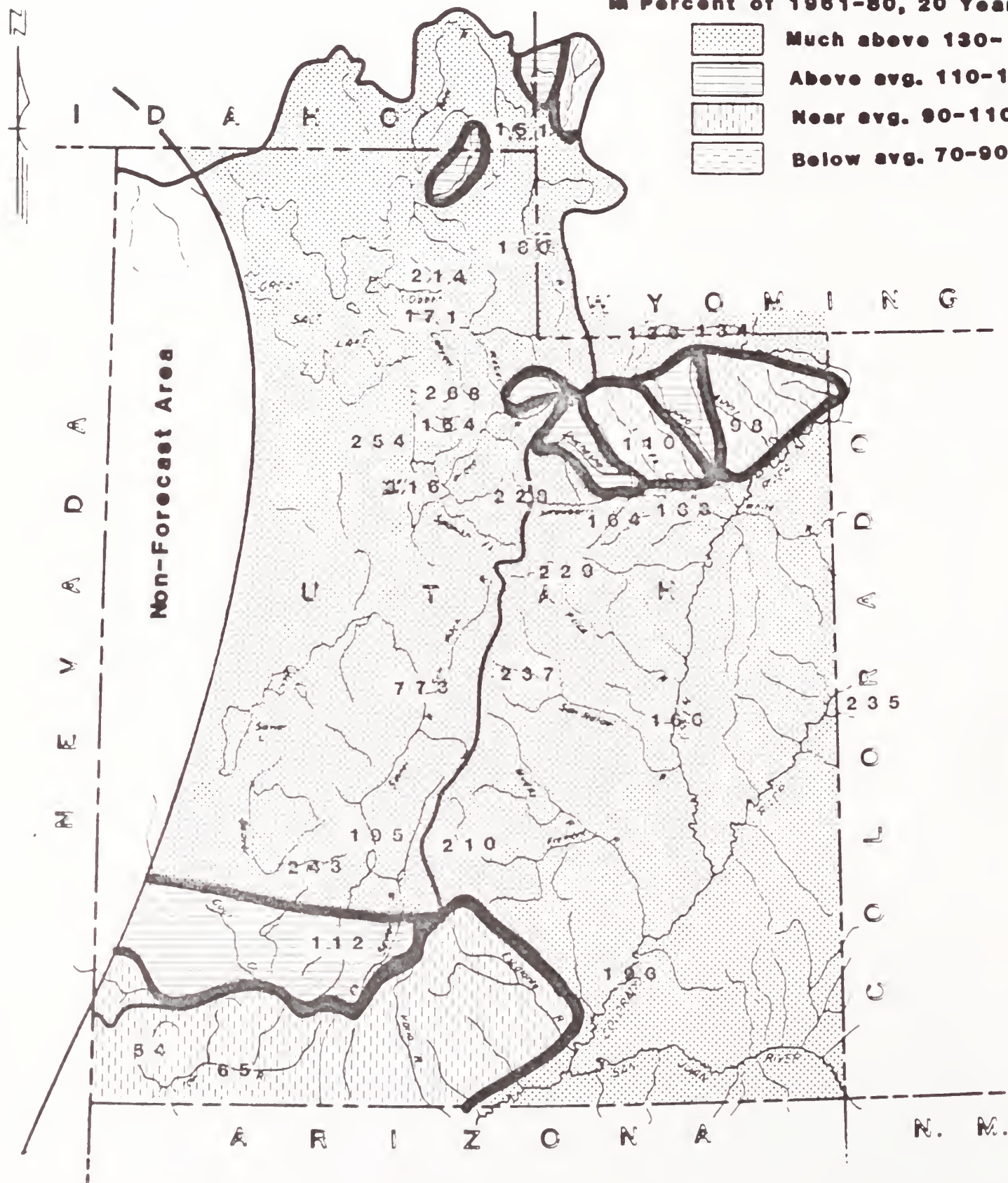
**Soil Conservation Service
125 So. State, Fed. Bldg.
P.O. Box 11350
Salt Lake City, Utah 84147**

Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

Approximate Date



	Much above 130-
	Above avg. 110-130
	Near avg. 90-110
	Below avg. 70-90



As of June 1, 1984

* * * * *
* Utah's 1984 Water Supply Outlook ranges from below *
* average on the Virgin to several times average on the *
* Lower Sevier. Snow cover ranges from no snow on many *
* areas of Southern Utah and Uintah Basin to 255% of *
* average on the Lower Sevier. Soil moisture is wetter *
* than average except along the southern border of the *
* state. Reservoir storage is above average with most *
* reservoirs full and spilling. Streamflow forecasts *
* range from about half average on the Virgin to seven to *
* ten times average on the Lower Sevier. *
* * * * *

SNOW COVER

Snow courses measured the last week of May show many areas of Southern Utah and Uintah Basin had no snow on snow courses as high as 9,800 feet in elevation. Those with snow range from 19% of average on Parowan Creek to 255% on the Lower Sevier-San Pitch area.

Those basins with snow were as follows: Bear 149%, Ogden 184%, Weber 194%, Provo 82%, Utah Lake 97%, Black's Fork 121%, Duchesne 50%, San Rafael 184%, Beaver 122%, and Upper Sevier 72% of the June 1 average. Snowmelt began about three to four weeks earlier than last year.

PRECIPITATION

Precipitation at mountain stations ranged from 7% of the May average in the southwestern corner of the state to about 150% of average at several stations in the central part of the state. Most stations on the Lower Bear and Ogden Rivers were near average to 30% above average. Upper Bear, Weber, Provo and Uintah Basin stations were 50% to 90% of average. Most stations on the San Pitch and San Rafael were average to 150% of average. Beaver River stations were 60% to 70% of the May average while stations south and east of the Beaver received only 7% to 40% of the May average.

SOIL MOISTURE

Watershed soils are generally wetter than average except on the Virgin, Upper Sevier, and Blue Mountains of Southern Utah.

RESERVOIR STORAGE

Storage in 24 key irrigation reservoirs is now 122% of the June 1 average and 94% of useable capacity. Many reservoirs are full and spilling and most others, except possibly those in souther Utah, are expected to fill in early June. Utah Lake is 5.2 feet about compromise and Great Salt Lake is 4208.8 feet above sea level.

STREAMFLOW FORECASTS

Streamflow forecasts for the May-July period now range from 54% of average on Santa Clara to 1070% for the Sigurd to Gunnison reach of the Lower Sevier River. Forecast range by basins is as follows: Bear, 102% for Smith's Fork to 211% for Bear at Randolph; Ogden, 200% for South Fork to 214% for Pineview Inflow; Weber, 129% for Oakley to 268% for Lost Creek; Utah Lake-Jordan River, 147% for Little Cottonwood to 338% for Hobble Creek; Tooele Valley, 147% for South Willow to 306% for Vernon Creek; Duchesne-Green Rivers, 98% for Ashley Creek to 228% for Strawberry Inflow; Price River, 220% for Gooseberry Creek to 229% for Scofield Inflow; San Rafael, 213% for Huntington Creek to 237% for Cottonwood Creek; Dirty Devil, 200% for the Muddy to 210% for Seven Mile Creek; Sevier, 112% Hatch to 1070% Sigurd to Gunnison; Beaver, 233% for North Creeks to 393% for Minersville Inflow; Virgin, 54% for Santa Clara to 65% for Hurricane; Coal Creek is 123% of the May-July average.

Most Streams have had their snow melt peaks and are now receding except where influenced by rain showers.

All water users are expected to have average to above average water supplies except on the Virgin and smaller streams along the southern border of the state.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1275.0	1273.5	1130.7
	Woodruff Narrows	55.8	60.6	60.6	--
	Woodruff Creek	3.5	3.5	3.6	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	24.0	23.3	13.4
<u>Little Bear</u>	Hyrum	15.3	15.3	11.6	14.7
	Porcupine	11.3	11.9	12.9	10.9 ^b
<u>Ogden</u>	Causey	6.9	7.1	7.1	6.3 ^b
	Pineview	110.1	108.2	106.4	99.2
<u>Provo</u>	Deer Creek	149.7	148.0	140.6	135.9
<u>Settlement Creek</u>	Settlement Creek	1.2	1.2	1.2	1.0 ^b
	Vernon Creek	0.6	0.6	0.6	0.5 ^b
<u>Sevier River</u>	Gunnison	18.2	18.2 ^a	18.2	13.4 ^b
	Otter Creek	52.5	52.7	52.7	40.3
	Piute	71.8	70.7	71.8	39.0
	Sevier Bridge	236.0	248.0	236.1	112.3
	Panguitch Lake	22.3	22.3	23.0 ^a	--
<u>Spanish Fork</u>	Strawberry	270.0	295.4	294.9	180.4
<u>Utah Lake</u>	Utah Lake	883.9	1415.8	1269.6	--
<u>Weber</u>	East Canyon	48.1	46.6	49.7	46.8 ^b
	Echo	73.9	63.8	73.4	65.6
	Lost Creek	20.0	20.2	21.3	19.1 ^b
	Rockport	60.9	53.4	53.2	47.2
	Willard Bay	193.3	152.7	167.5	181.0 ^b
COLORADO R. BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	33.3	29.0	26.9 ^b
	Red Fleet	26.0	25.0	23.9	--
<u>Colorado</u>	Blue Mesa	829.5	653.0	562.0	--
	Lake Powell	25002.0	23090.0	24216.0	--
<u>Green</u>	Flaming Gorge	3749.0	3280.0	3416.0	--
<u>Lakefork</u>	Moon Lake	35.8	35.8	32.1	18.0
<u>Price River</u>	Scotfield	65.8	72.0 ⁺	52.4	53.8
<u>San Juan</u>	Navajo	1696.0	1573.0	1444.0	--
	Ken's Lake	2.3	2.3	2.2	--
<u>San Rafael</u>	Huntington North	3.9	3.9 ^a	3.9 ^a	--
	Joe's Valley	54.6	56.6	45.4	54.5 ^b
	Mill Site	16.7	16.7	17.0 ^a	--
<u>Strawberry</u>	Currant Creek	15.5	5.0 ^a	4.0	--
	Starvation	165.3	149.6	165.9	128.9 ^b
	Soldier Creek	951.4	120.0	90.5	--
<u>Uintah</u>	Bottle Hollow	11.3	11.3 ^a	11.1	--

a - Partly estimated

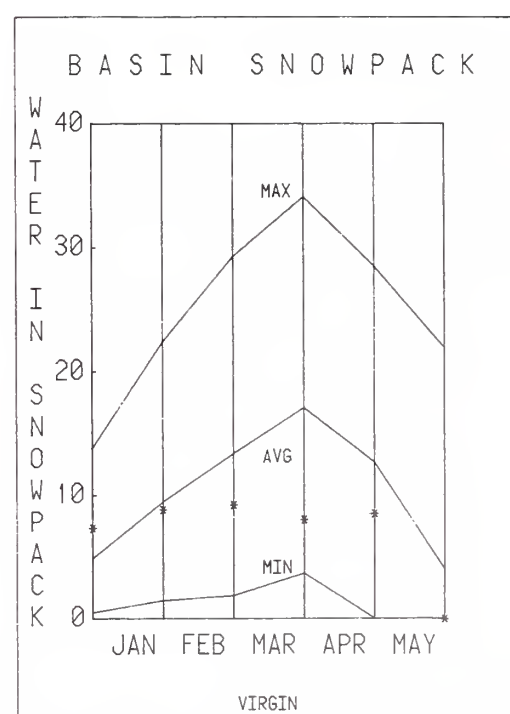
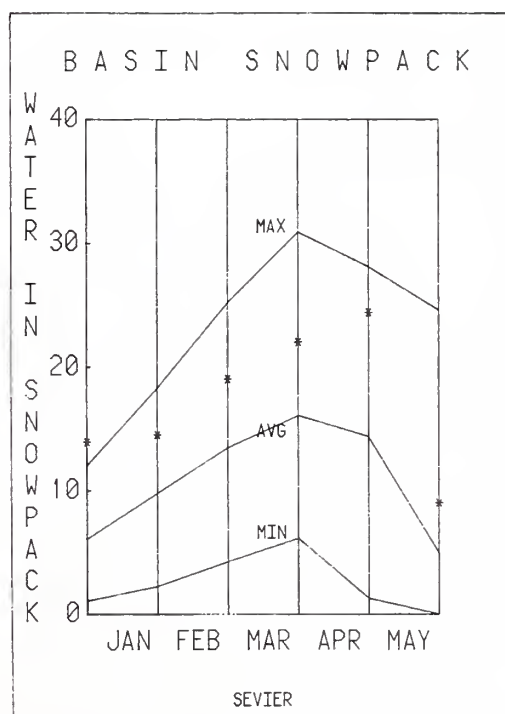
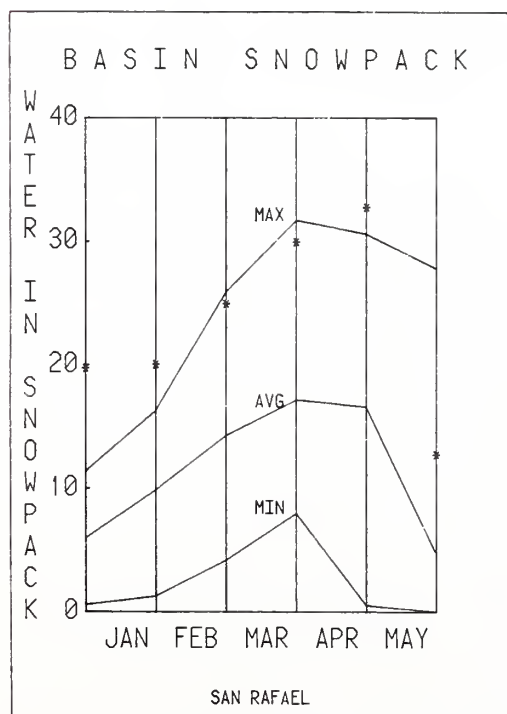
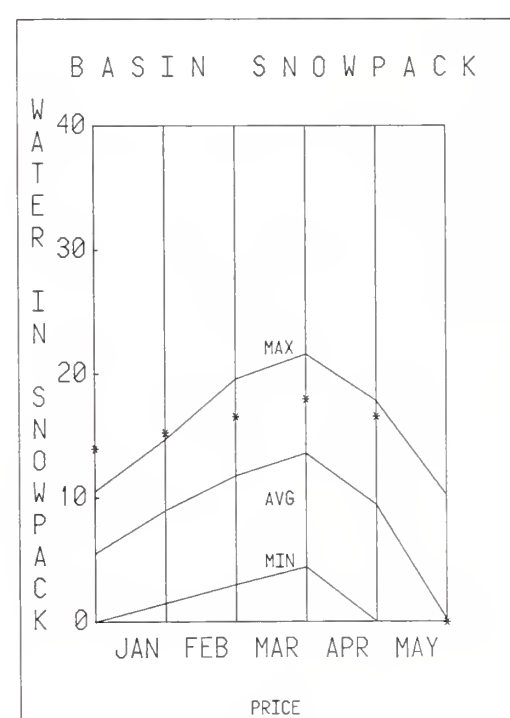
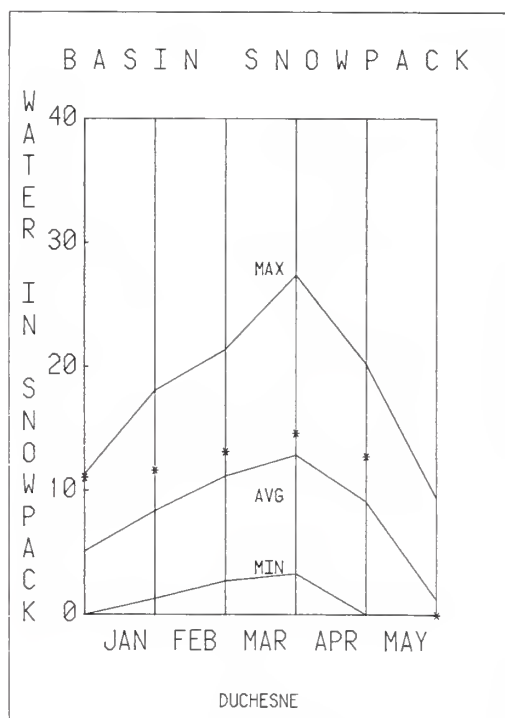
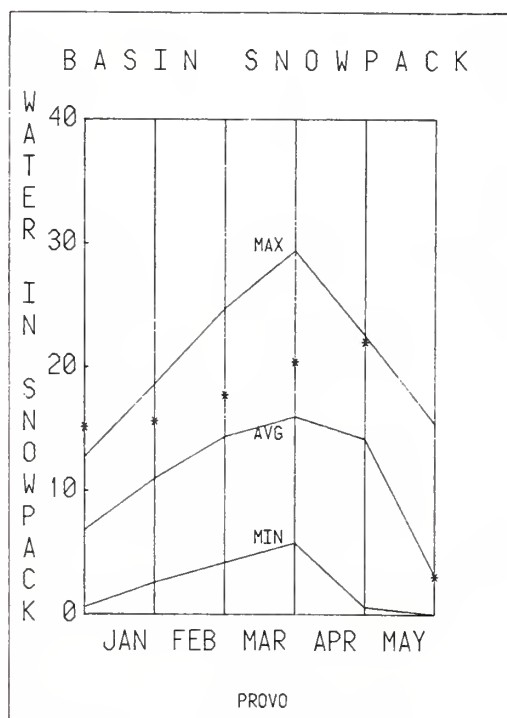
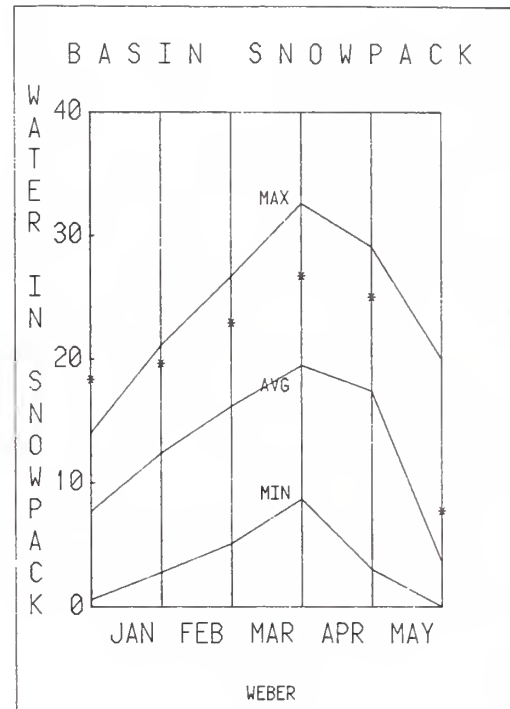
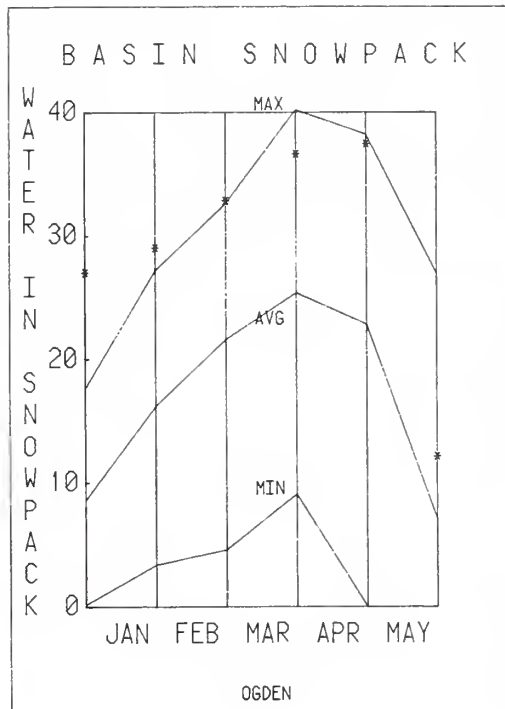
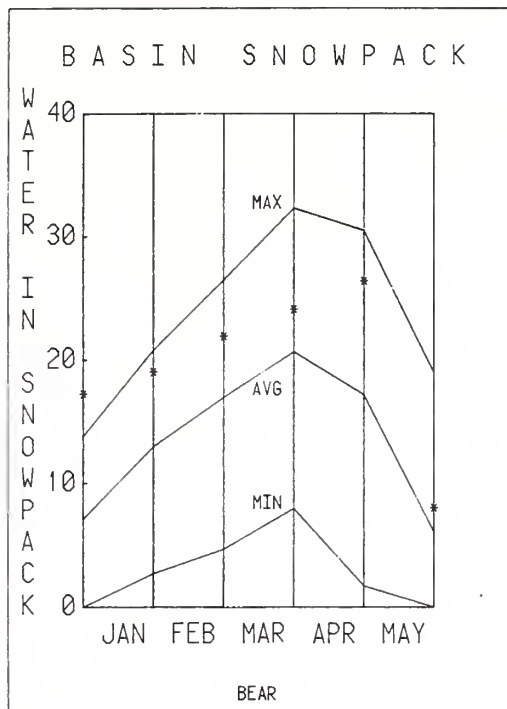
b - Average of past record in average period - less than 20 years

+ - 1961-80 20 year average period

BASIN SNOWPACK



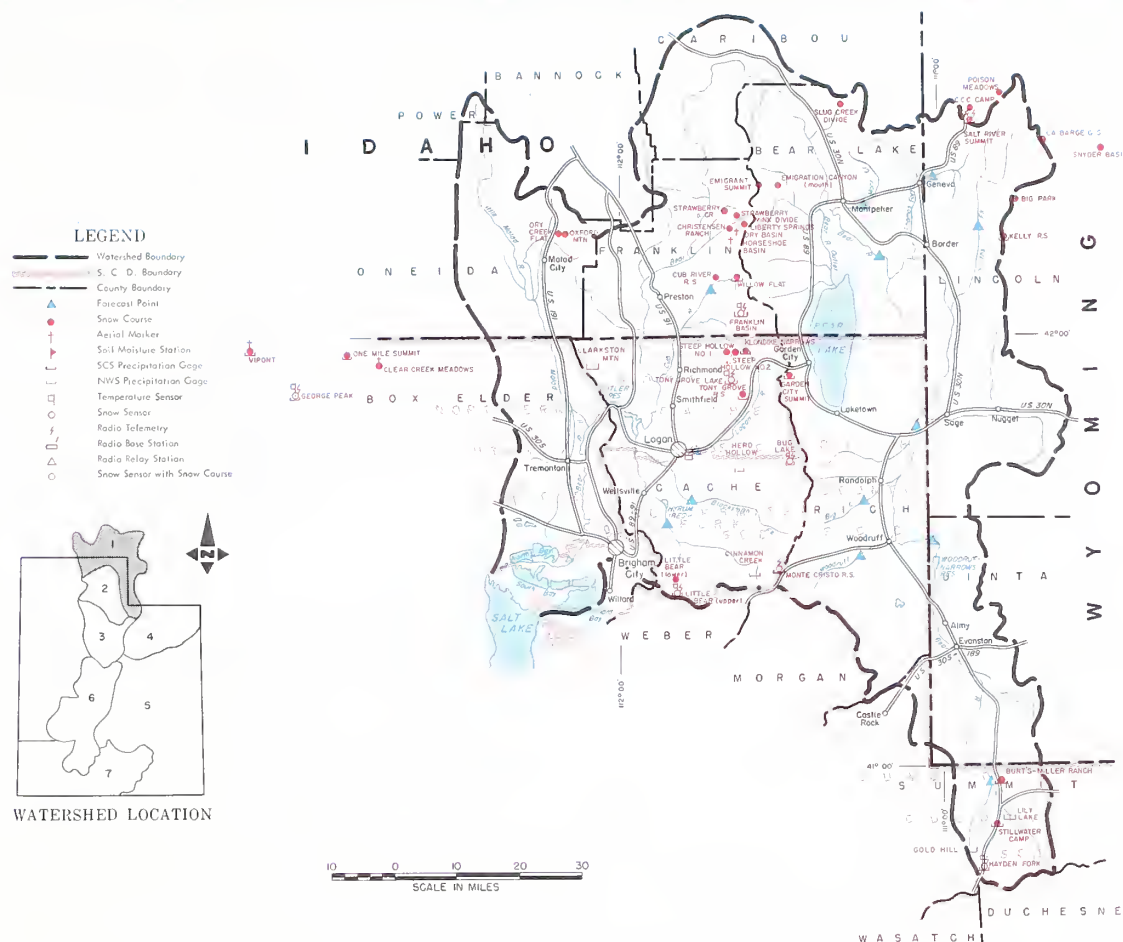
UTAH STATE WIDE



WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1984

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER as of June 1 ranges from 102% on the Upper Bear to 160% on the Lower Bear. Logan River is 153% of average.

PRECIPITATION at mountain stations ranged from 56% of the May average at Stillwater Camp to 155% at Tony Grove R. S. above Logan.

SOIL MOISTURE on higher watersheds is still wetter than average and wetter than last year.

RESERVOIR STORAGE is above average with all but Bear Lake full and spilling.

STREAMFLOW FORECASTS now range from 102% of the April-September average on Smith's Fork to 211% for the May-July average for the Bear at Randolph. The Bear River is forecast 131% at State Line, 180% at Woodruff, and 151% at Harer, Idaho, Woodruff Creek 140%, Big Creek 197%, and Thomas Fork 115% of average. Logan River is forecast 124%, Blacksmith Fork 155%, Little Bear 148% and Cub River 147% of average.

Snowmelt peaks have already passed and streams are expected to recede unless caused to rise by rain showers.

BEAR RIVER BASIN IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *	FORECAST *		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year †	Average ‡
BEAR RIVER					
Bear nr UT-Wyo. State Line	138	131	May-July	159	105
Bear nr Woodruff 1/	209	180	May-July	236	116
Woodruff Crk nr Woodruff, UT	21	140	May-July	28	15.1 ^b
Big Creek nr Randolph, UT	8.7	197	May-July	--	4.4 ^a
Bear nr Randolph 1/	170	211	May-July	262	82
Thomas Fork nr ID-WY State Ln	40	115	Apr-Sept	--	35
Smith's Fork nr Border, WY	121	102	Apr-Sept	--	119
Bear at Harer, Idaho 1/	468	151	Apr-Sept	688	310
Logan nr Logan 1/	125	124	May-July	153	101
Blacksmith Fork nr Hyrum	59	155	May-July	74	38
Little Bear nr Paradise	38	148	May-June	72	26
Cub River nr Preston, ID	63	147	May-July	--	43

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	14	46	149
UPPER BEAR RIVER	4	28	102
LOWER BEAR RIVER	10	51	160
LOGAN RIVER	6	53	153

1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U. S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 a - Partly estimated
 b - Average of all past record - less than 20 years
 e - Maximum mean daily peak flow
 + - 1961-80 20 year Average Period
 * - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
BEAR RIVER	Bear Lake	1421.0	1275.0	1273.5	1130.7
	Woodruff Narrows	55.8	60.6	60.6	--
	Woodruff Creek	3.5	3.5	3.6	--
LITTLE BEAR	Hyrum	15.3	15.3	11.6	14.7
	Porcupine	11.3	11.9	12.9	10.9 ^b

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Bear nr. Ut.-Wyo. Stateline	1870-2240	1506
Woodruff Creek nr Woodruff	300-440	253
Big Creek nr Randolph	80-120	48 ^b
Logan River nr Logan	990-1290	980
Little Bear nr Paradise	560-890	519

SNOW

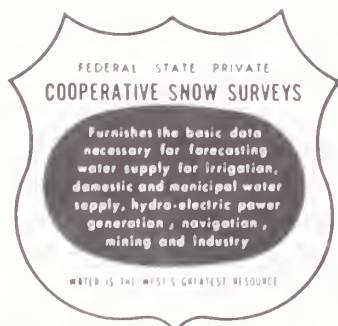
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Burts-Miller Ranch	5/28	0	0.0	0.0	0.0 ^b
Cub River R.S.	5/30	0	0.0	0.0	
Emigrant Summit		not measured			
Franklin Basin	5/30	30	16.3	33.4	10.6 ^a
Garden City Summit	5/29	9	4.8	14.7	2.6
Hayden Fork	5/28	0	0.0	15.4	4.5 ^b
Klondike Narrows	5/29	0	0.0	13.3	1.1 ^b

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Little Bear Lower	5/29	0	0.0	0.0	0.0 ^b
Little Bear Upper	5/29	0	0.0	0.0	0.0 ^b
Monte Cristo	5/29	28	14.9	32.9	9.9
Salt River Summit		not measured			
Stillwater Camp	5/28	0	0.0	4.8	0.2 ^b
Tony Grove R.S.	5/29	0	0.0	0.0	0.0 ^b

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 841138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
APR 1967



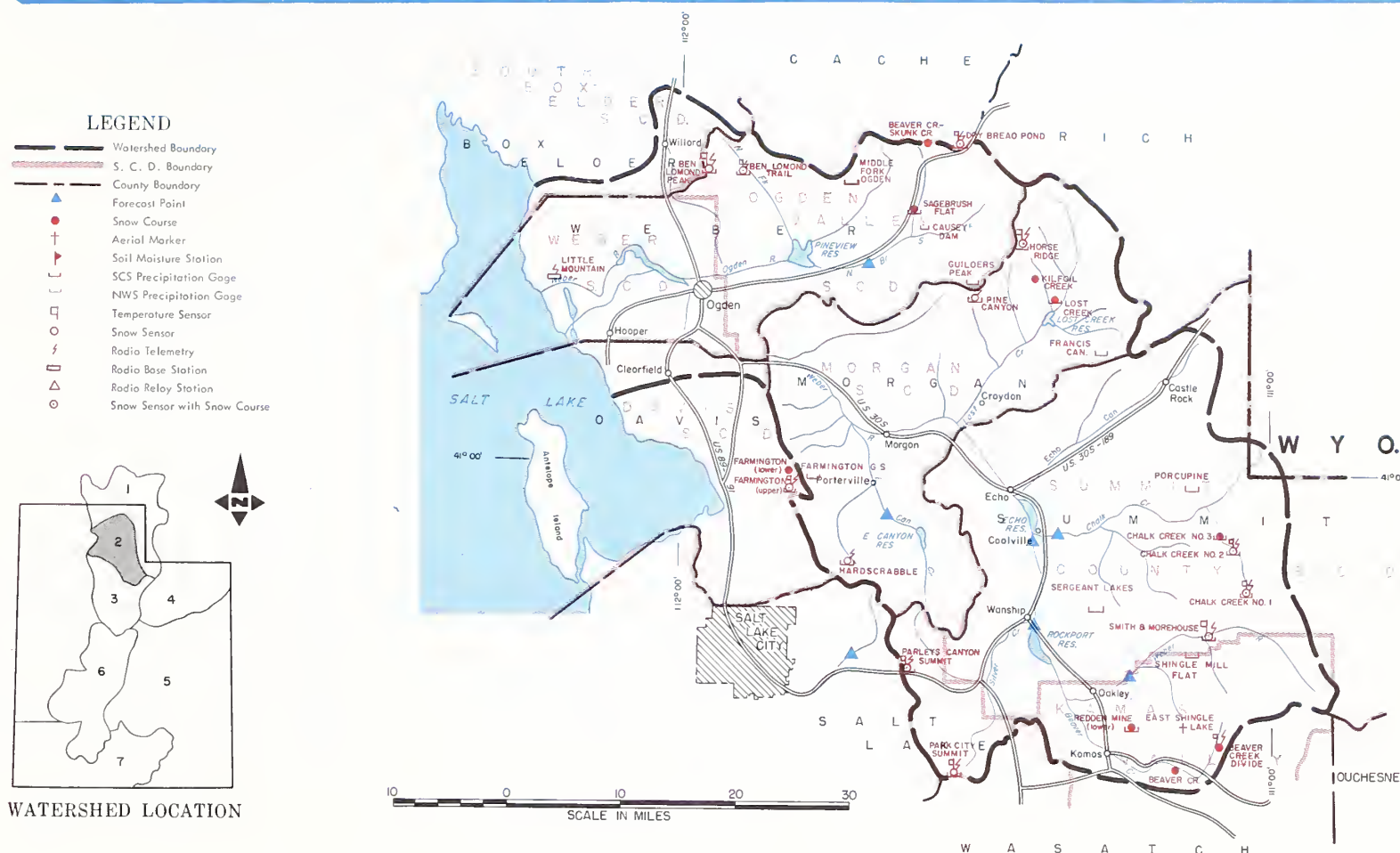
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



June 1, 1984

THE WATER SUPPLY OUTLOOK REMAINS ABOVE AVERAGE TO WELL ABOVE AVERAGE

SNOW COVER is now 184% of the June 1 average on the Ogden Basin and 194% on the Weber Basin. Snow remains at only the higher elevations and is less than half as much as last year at this time.

PRECIPITATION at mountain stations ranged from 65% of the May average at Chalk Creek #3 on the Weber to 141% at Horse Ridge.

SOIL MOISTURE is still above average and wetter than last year at the higher elevations of the watershed.

RESERVOIR STORAGE is now 98% of capacity and 109% of average on the Ogden. The Weber is 84% of capacity and 93% of the June 1 average. All reservoirs will fill in early June.

STREAMFLOW FORECASTS for the May-June period now range from 129% of average for the Weber at Oakley to 268% for Lost Creek. The Ogden is forecast 200% of average for the South Fork and 214% for Pineview Inflow. Weber River forecasts are as follows: 133% Rockport Inflow, 137% at Coalville, 183% for Chalk Creek, 152% for Echo Inflow, 268% for Lost Creek, 245% for East Canyon Creek, 169% for Hardscrabble Creek, and 171% for the Weber at Gateway for the May-June period. Farmington Creek is forecast 178% of the May-July period.

Snow melt peaks have been reached and all streams are receding unless rain showers cause additional rises in early June.

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEBER-OGDEN RIVERS					
Weber nr Oakley	120	129	May-June	138	93
Rockport Reservoir Inflow <u>1/</u>	128	133	May-June	154	96
Chalk Creek at Coalville	53	183	May-June	58	29
Weber nr Coalville <u>1/</u>	134	137	May-June	167	98
Lost Creek nr Croydon, UT <u>1/</u>	30	268	May-June	34	11.2 ^a
East Canyon Creek nr Morgan <u>1/</u>	40	245	May-June	43	16.3
Hardscrabble Crk nr Porterville	24	169	May-June	--	14.1 ^a
S. Fork Ogden nr Huntsville <u>1/</u>	82	200	May-June	81	41 ^a
Pineview Reservoir Inflow <u>1/</u>	158	214	May-June	161	74 ^a
Echo Reservoir Inflow <u>2/</u>	182	152	May-June	190	120
Weber at Gateway <u>1/</u>	383	171	May-June	474	224
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	11.9	178	May-July	--	6.7 ^b

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
OGDEN RIVER	5	48	184
WEBER RIVER	13	34	194
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	7.1	7.1	6.3 ^b
	Pineview	110.1	108.2	106.4	99.2
WEBER	East Canyon	48.1	46.6	49.7	46.8 ^b
	Echo	73.9	63.8	73.4	65.6
	Lost Creek	20.0	20.2	21.3	19.1 ^b
	Rockport	60.9	53.4	53.2	47.2
	Willard Bay	193.3	152.7	167.5	181.0 ^b

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
South Fork Ogden nr Huntsville	1200-1560	763
Chalk Creek nr Coalville	750-1090	510
Weber nr Oakley	1710-2170	1540

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Beaver Creek R.S.	5/28	0	0.0	0.0	0.0 ^b
Beaver Creek-Skunk Creek	5/29	0	0.0	0.0	0.0 ^b
Ben Lomond Peak	5/29	52	32	53.2	16.0 ^a
Ben Lomond Trail	5/29	0	0.0	0.0	0.0
Chalk Creek #1	5/28	25	13.4	30.1	12.9 ^a
Chalk Creek #2	5/28	0	0.0	11.0	1.3 ^a
Chalk Creek #3	5/28	0	0.0	0.0	0.0 ^b
Dry Bread Pond	5/29	4	2.0	17.0	2.4 ^b

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Horse Ridge	5/29	14	7.8	18.1	1.9 ^b
Lost Creek Reservoir	5/29	0	0.0	0.0	0.0 ^b
Monte Cristo	5/29	28	14.9	32.9	9.9
Parleys Canyon Summit	5/30	0	0.0	6.7	0.7 ^a
Sagebrush Flat	5/29	0	0.0	0.8	0.0 ^b
Smith & Morehouse	5/28	0	0.0	3.0	0.4 ^a
Trial Lake	5/29	31	17.3	35.5	19.7 ^b

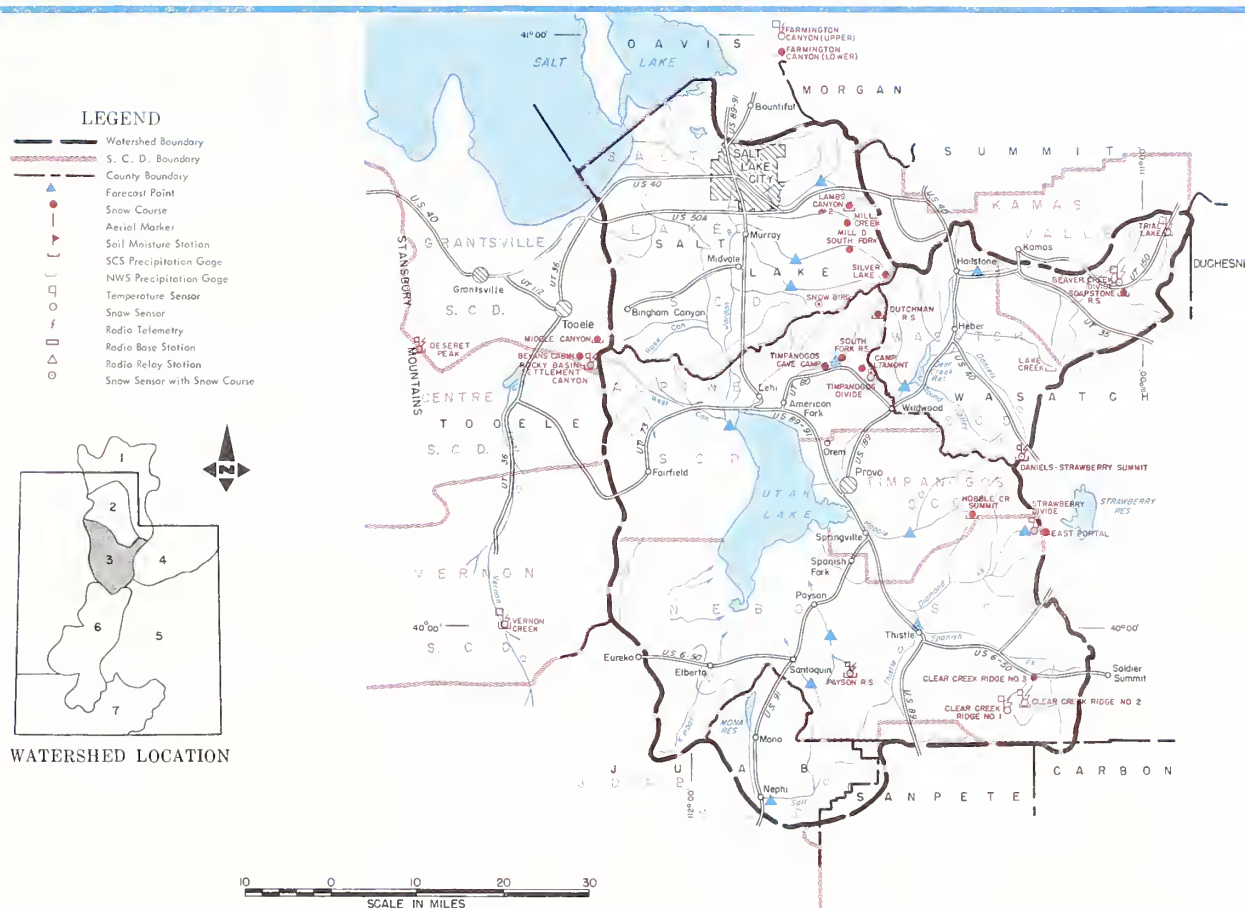
UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 Federal Bldg. - Room 4012
 Salt Lake City, Utah 84138
 OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE, \$300

FIRST - CLASS MAIL
 POSTAGE AND FEES PAID
 USDA - SCS
 SALT LAKE CITY, UTAH
 PERMIT NO. G-267

WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1984

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER ranges from 82% of the June 1st average on Provo River to 118% along the Salt Lake Front. Utah Lake tributaries are 97% of average.

PRECIPITATION at mountain stations ranged from 49% of the May average at Vernon Creek to 138% at Payson Ranger Station.

SOIL MOISTURE at higher elevations is above average and wetter than last year.

RESERVOIR STORAGE is above average. Utah Lake is now 5.2 feet above compromise and Great Salt Lake 4208.80 feet above sea level. Strawberry is still spilling.

STREAMFLOW FORECASTS range from 147% on Little Cottonwood and South Willow to 338% on Hobbie Creek for the May-July period. The Provo River is forecast 170% at Hailstone and 191% at Deer Creek Dam. American Fork is forecast 176%, Spanish Fork 290%, Payson Creek 317%, Strawberry Inflow 228% and Utah Lake Inflow 316% of average.

Big Cottonwood Creek is forecast 164%, Mill Creek 255%, Parleys Creek 268%, Emigration Creek 320%, City Creek 216%, Settlement Creek 254%, and Vernon Creek 306% of average. Snowmelt peak flows have occurred on all streams by the time you receive this publication.

UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	160	170	May-July	151	94
Provo below Deer Creek Dam 1/	185	191	May-July	--	96
American Fork nr American Fk.	50	176	May-July	--	28
Hobble Creek nr Springville	45	338	May-July	--	13.3
Strawberry Reservoir Inflow 1/	98	228	May-July	141	43
Spanish Fork at Thistle	90	290	May-July	--	28
Payson Creek nr Payson	14	317	May-July	--	4.4
Utah Lake Inflow	525	316	May-July	610	166
JORDON RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	53	147	May-July	61	36
Big Cottonwood nr SLC	54	164	May-July	57	33
Parley's Creek nr SLC	30	268	May-July	35	11.3
Mill Creek nr SLC	13.0	255	May-July	12.1	5.0
Emigration Creek nr SLC	8.0	320	May-July	10.4	2.5
City Creek nr SLC	14.5	216	May-July	19.7	6.6
TOOELE VALLEY					
Settlement Crk nr Tooele	5.3	254	May-July	--	2.1 ^b
S. Willow Crk nr Grantsville	4.0	147	May-July	3.9	2.7 ^b
Vernon Creek nr Vernon	1.6	306	May-June	3.5	0.5 ^b

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	9	22	97
JORDON RIVER & SALT LAKE	5	26	118
TOOELE VALLEY & VERNON CREEK	3	47	82
1 - Observed flow corrected for change in storage and diversions 3 - Provisional flows - subject to correction a - Partly estimated b - Average of past record - less than 20 years + - 1961-80 20 year average period e - Maximum mean daily peak flow * - Forecast in cooperation with National Weather Service			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
SPANISH FORK	Strawberry	270.0	295.4	294.9	180.4
UTAH LAKE	Utah Lake	883.9	1415.8	1269.6	--
	Settlement Creek	1.2	1.2	1.2	1.0 ^b
	Vernon Creek	0.6	0.6	0.6	0.5 ^b
PROVO	Deer Creek	149.7	148.0	140.6	135.9

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Big Cottonwood nr Salt Lake City	600-700	442
Little Cottonwood nr Salt Lake City	650-750	384
Provo Near Hailstone	2400-2800	2128
Spanish Fork nr Thistle	1400-1600	451 ^b
American Fork nr American Fork	600-700	329
Mill Creek nr Salt Lake City	110-130	59
Parley's Creek nr Salt Lake City	350-400	153
City Creek nr Salt Lake City	125-150	75
Emigration	150-175	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
NAME					
Bevans Cabin		not measured			
Clear Creek #1	5/27	11.3	5.4	23.4	2.8 ^a
Clear Creek #2	5/27	0	0.0	11.4	0.2 ^b
Clear Creek #3	5/27	0	0.0	0.0	0.0 ^a
Daniels-Strawberry Summit	5/27	0	0.0	11.0	0.2 ^a
Deseret Peak		not measured			
Hobble Creek Summit	5/27	0	0.0	6.7	0.0 ^b
Lambs Canyon #2	5/31	0	0.0	7.7	0.5 ^b
Middle Canyon		not measured			
Mill Creek	5/30	18	9.4	24.3	5.1 ^a

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
NAME					
Mill D South Fork	5/30	0	0.0	19.0	2.4 ^a
Parley's Canyon Summit	5/30	0	0.0	6.7	0.7 ^a
Payson R.S.	5/25	12	5.6	22.4	0.7 ^b
Rocky Basin-Settlement Canyon		not measured			
Silver Lake Brighton	5/30	19	14.2	41.0	12.0 ^b
Soapstone R.S.	5/28	0	0.0	0.0	0.2 ^a
South Fork R.S.		not measured			
Timpanogos Divide	6/1	0	0.0	24.1	4.3 ^b
Trial Lake	5/29	31	17.3	35.5	19.7 ^b
Vernon Creek	6/1	0	0.0	0.0	0.0 ^b

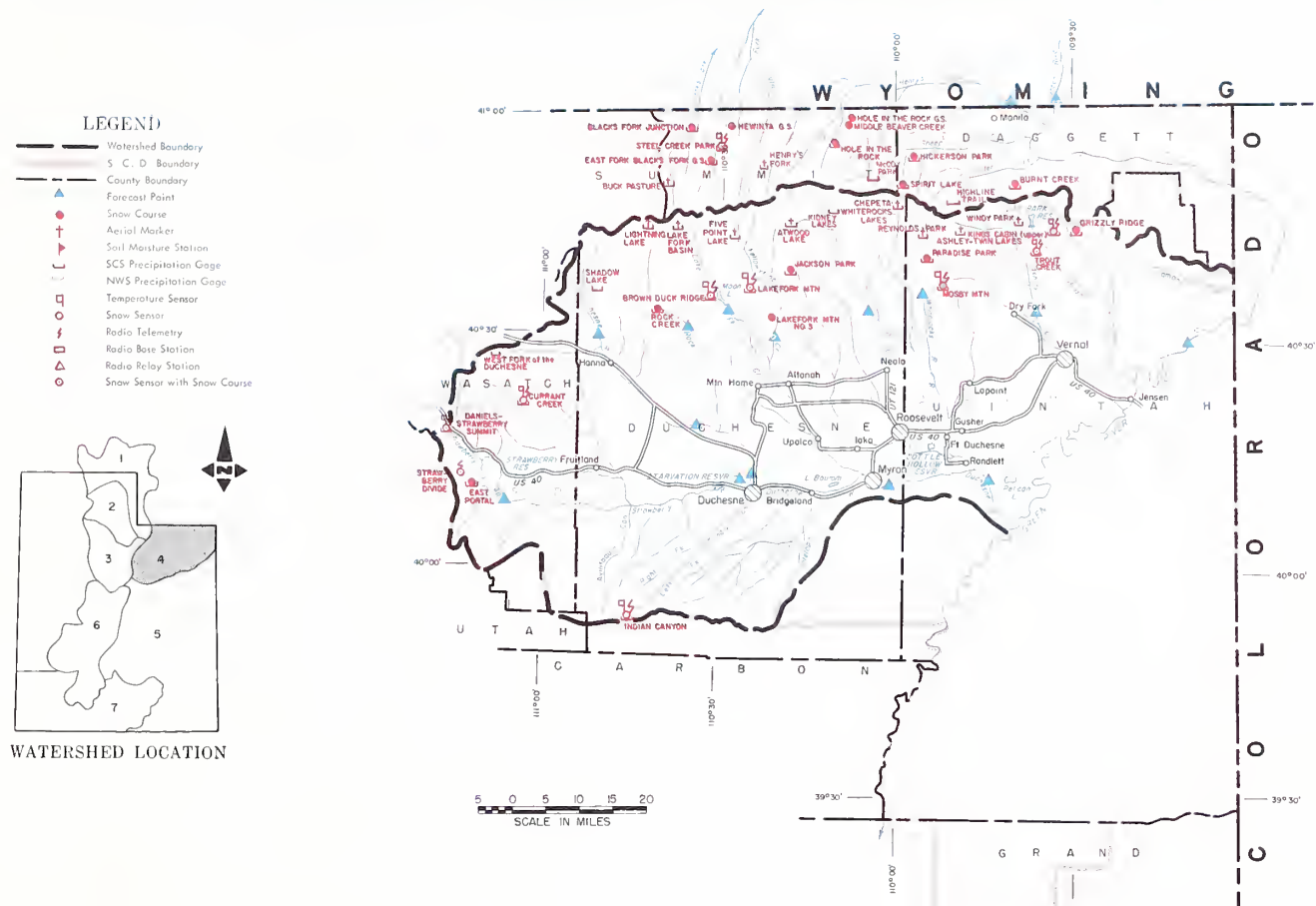
UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 Federal Bldg. - Room 4012
 Salt Lake City, Utah 84138
 OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE, \$300

FIRST - CLASS MAIL
 POSTAGE AND FEES PAID
 USDA - SCS
 SALT LAKE CITY, UTAH
 PERMIT NO. G-267

WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1984

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE TO ABOVE AVERAGE

SNOW COVER ranges from no snow on the courses on Strawberry, Uintah-Whiterocks, Ashley, and Sheep Creeks to 91% of the June 1 average on Black's Fork. Lakefork-Yellowstone is 39%, and Rock Creek is 90% of average.

PRECIPITATION at mountain stations ranged from 43% of the May average at Mosby Mountains to 130% at Daniels-Strawberry Summit. Most sites were never 50% of the May average.

SOIL MOISTURE at higher elevations is above average.

RESERVOIR STORAGE is above average with Moon Lake and Steinaker full and spilling.

STREAMFLOW FORECASTS for the May-July period now range from 98% of average for Ashley Creek to 183% for the Duchesne at Myton. Other Duchesne River forecasts are as follows: 123% for West Fork, 119% at Tabiona, 117% at Duchesne, and 178% at Randlett.

Strawberry River is forecast 164%, Current Creek 181%, Rock Creek 102%, Lakefork Creek 110%, Yellowstone Creek 100%, Uintah River 116%, and Whiterocks River 112% of average.

Henry's Fork is forecast 134% and Black's Fork 136% of average. Flaming Gorge Inflow is forecast 116% of the May-July average.

Most streams have already had their snow melt peaks and will start their normal recession, barring any rain caused peaks, in a week or two.

UINTAH BASIN AND DAGGETT SCD's IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST *		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ³	Average ⁴
DUCHESNE RIVER					
Duchesne nr Tabiona <u>1/</u>	114	191	May-July	132	96
Duchesne at Duchesne <u>1/</u>	205	117	May-July	278	175
Strawberry at Duchesne	79	164	May-July	162	48
Rock Creek nr Mtn. Home	95	102	May-July	--	88
Current Creek nr Fruitland	30	181	May-July	49	16.6
Lakefork below Moon Lake <u>1/</u>	74	110	May-July	--	67
Yellowstone nr Altonah	61	100	May-July	--	61
Duchesne at Myton <u>1/</u>	340	183	May-July	--	186
Whiterocks nr Whiterock	63	112	May-July	95	56
Uintah nr Neola	94	116	May-July	--	81
Duchesne at Randlett <u>1/</u>	411	178	May-July	--	231
West Fork Duchesne at Hanna	30	123	May-July	--	24
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	58	134	May-Sept	152	43
Black's Fork nr Millburne	118	136	May-July	144	87
Flaming Gorge Inflow <u>1/</u>	1250	116	May-July	1936	1080
Ashley Creek nr Vernal	48	98	May-July	--	49

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
DUCHESNE RIVER - TOTAL	14	18	50
LAKEFORK-YELLOWSTONE CREEKS	6	19	39
STRAWBERRY RIVER	5	0	0
UINTAH - WHITEROCKS RIVERS	3	0	0
ASHLEY CREEK	3	0	0
BLACK'S FORK	4	26	91
SHEEP CREEK	3	0	0
ROCK CREEK	3	52	90
<p>1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service</p>			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ⁴
ASHLEY CREEK	Red Fleet	26.0	25.0	23.9	--
	Steinaker	33.3	33.3	29.0	26.9 ^b
GREEN RIVER	Flaming Gorge	3749.0	3280.0	3416.0	--
LAKE FORK	Moon Lake	35.8	35.8	32.1	18.0
STRAWBERRY	Current Creek	15.5	5.0 ^a	4.0	--
	Starvation	165.3	149.6	165.9	128.9 ^b
	Soldier Creek	951.4	120.0	90.5	--
UINTAH	Bottle Hollow	11.3	11.3 ^a	11.1	--

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ⁴
Strawberry at Duchesne	920-1330	675
Ashley Creek nr Vernal	820-1080	966
Rock Creek nr. Mtn. Home	1380-1690	1415

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average ⁴
Brown Duck Ridge	5/28	25	10.6	26.9	15.3 ^a
Burnt Creek	5/31	0	0.0	0.0	0.3 ^b
Current Creek	5/21	0	0.0	0.0	0.0 ^b
Daniels-Strawberry	5/27	0	0.0	11.0	0.2 ^a
Grizzly Ridge	5/31	0	0.0	0.0	1.0 ^b
Hewinta G. S.	5/28	0	0.0	11.6	2.0 ^b
Hickerson Park	5/28	0	0.0	14.7	0.1 ^b
Jackson Park	5/28	0	0.0	20.4	8.8 ^a
Kings Cabin Upper	5/28	0	0.0	8.4	1.0 ^b

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average ⁴
Lakefork Mountain #1	5/28	0	0.0	17.9	3.6 ^b
Mosby Mountain	5/28	0	0.0	19.0	3.2 ^b
Paradise Park	5/28	0	0.0	25.4	7.3 ^b
Rock Creek Ranch	5/28	0	0.0	0.0	0.0 ^a
Spirit Lake	5/28	0	0.0	26.5	7.3 ^b
Steel Creek Park	5/28	34	14.5	25.9	11.9 ^a
Strawberry Divide	5/31	0	0.0 ^a	--	0.0 ^b
Trout Creek	5/28	0	0.0	14.2	1.5 ^b

UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 Federal Bldg. - Room 4012
 Salt Lake City, Utah 84138

OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE \$300



POSTAGE AND FEES PAID
 U. S. DEPARTMENT OF AGRICULTURE
 PERMIT



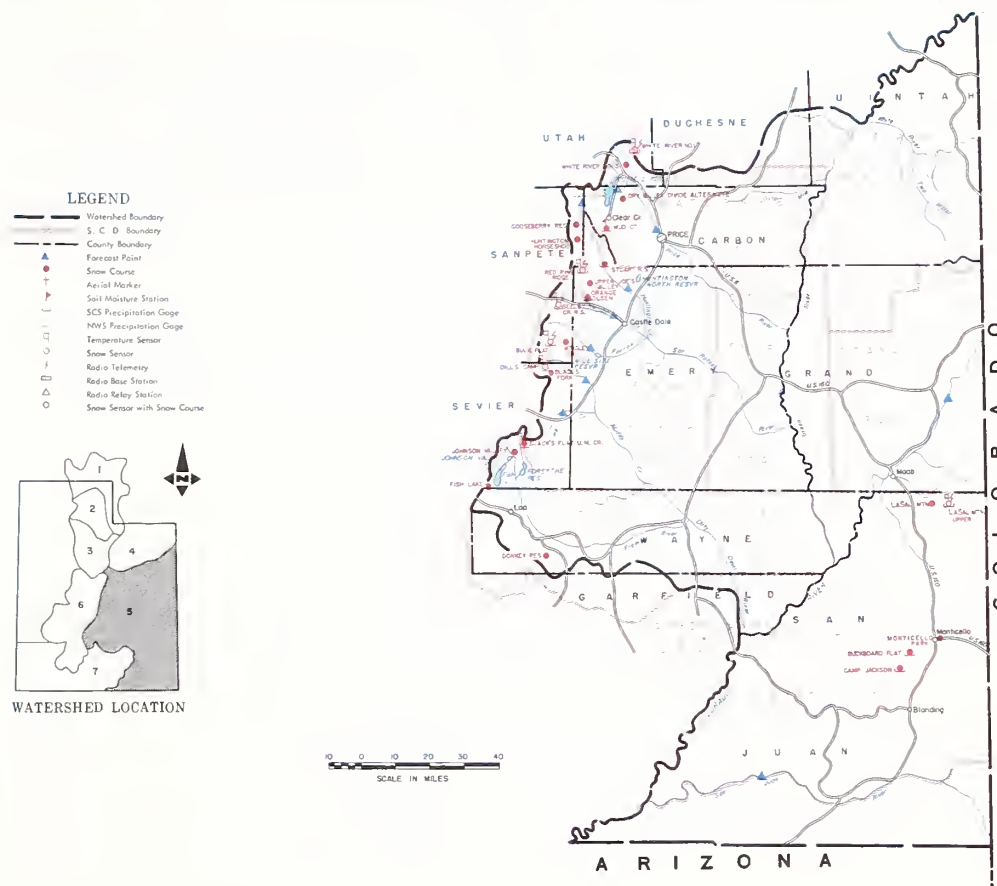
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1984

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER ranges from no snow on the Price, Muddy, Fremont, LaSal, and Blues to 184% of the June 1 average on the San Rafael tributaries. Only elevations above 9,000 feet still have snow.

PRECIPITATION at mountain stations ranged from 28% of the May average at Camp Jackson on the Blue Mountains to 152% at Red Pine Ridge on the San Rafael.

SOIL MOISTURE is above average except on the Blue Mountains.

RESERVOIR STORAGE is above average with most reservoirs full and spilling.

STREAMFLOW FORECASTS range from 120% for Navajo Inflow to 237% for Cottonwood Creek. Price River forecasts are 229% for Scofield Inflow, 223% for Price at Heiner. Huntington Creek is forecast 213%, Ferron Creek 221% Muddy Creek 200%, Sevenmile Creek 210%, and Mill Creek 155% of the May-July average. Colorado River is forecast 235% at Cisco, Green River 166%, and San Juan 139% of average.

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast Thousand Acres Feet	Percent of Average		Thousand Acre Feet Last Year	Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	22.0	220	May-July	--	10.0
Scofield Reservoir Inflow	76	229	May-July	166	33
Price nr Heiner 1/	125	223	May-July	--	56
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	94	213	May-July	--	43 ^b
Cottonwood Crk nr Orangeville	102	237	May-July	151	43 ^b
Ferron Creek nr Ferron	75	221	May-July	73	34
MUDDY CREEK					
Muddy Creek nr Emery	34	200	May-July	43	16.8
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	6200	235	May-July	6368	2638
Green at Green River, UT	4300	166	May-July	5134	2594
Mill Creek nr Moab	7.3	155	May-July	11.9	4.7 ^b
Navajo Reservoir Inflow	695	120	May-July	--	540
San Juan nr Bluff, UT	1100	139	May-July	953	793
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	12.2	210	May-July	23	5.8 ^b

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	72.0 ⁺	52.4	53.8
SAN RAFAEL	Huntington North	3.9	3.9 ^a	3.9 ^a	--
	Joe's Valley	54.6	56.6	--	54.5 ^b
	Mill Site	16.7	16.7	45.4	--
SAN JUAN	Navajo	1696.0	1573.0	1444.0	--
	Kens Lake	2.3	2.3	2.2	--

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
PRICE RIVER	4	0	0
SAN RAFAEL RIVER	8	42	184
FREMONT RIVER	3	0	0
LASAL MOUNTAINS	2	0	0
BLUE MOUNTAINS	3	0	0
MUDDY RIVER	2	0	0
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	860-1020	444
Muddy Creek near Emery	280-400	168
Huntington Cr. near Huntington	1100-1300	516 ^b

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches) Last Year	Average †
Buck Flat	5/26	17	9.1	27.7	4.1 ^b
Buckboard Flat	5/30	0	0.0	8.4	0.4 ^b
Camp Jackson	5/30	0	0.0	7.4	0.0 ^b
Dills Camp	5/26	0	0.0	13.0	0.9 ^a
Dry Valley Divide Alternate	5/27	0	0.0	4.1	0.0 ^b
Huntington-Horseshoe	5/27	44	23.8	50.1	19.6 ^a
Indian Canyon	5/27	0	0.0	17.4	1.4 ^b
LaSal Mtn. Upper	5/31	0	0.0	26.1	2.7 ^a
Mammoth-Cottonwood R.S.	5/27	20	11.2	37.1	4.8 ^b

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches) Last Year	Average †
Monticello City Park	5/30	0	0.0	0.0	0.0 ^b
Mud Creek	5/27	0	0.0	8.1	0.0 ^b
Red Pine Ridge	5/27	14	6.9	22.7	1.8 ^b
Seeley Creek	5/26	42	22.4	32.9	8.2 ^a
Stuart R.S.	5/27	0	0.0	0.0	0.0 ^b
Upper Joe's Valley	5/27	0	0.0	4.7	0.0 ^b
White River #1	5/27	0	0.0	12.3	0.3 ^b
White River #3	5/27	0	0.0	0.0	0.0 ^b
Wrigley Creek	5/26	0	0.0	8.7	0.0 ^b

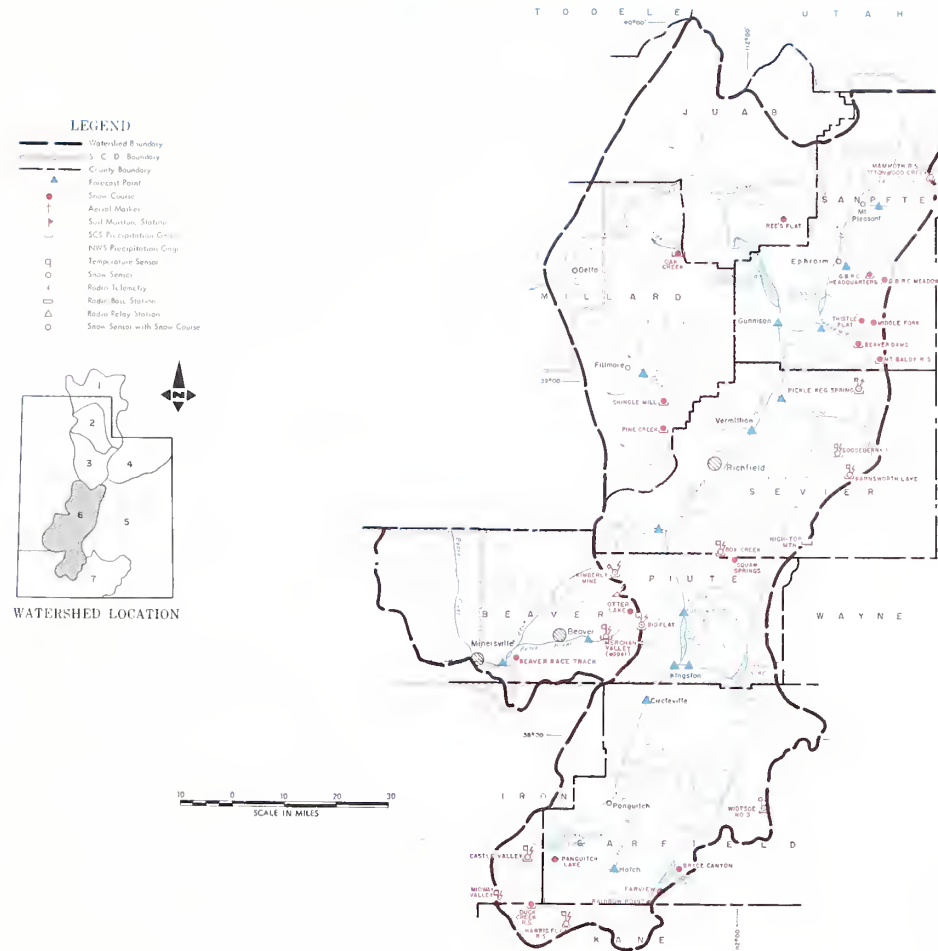
UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 Federal Bldg. - Room 4012
 Salt Lake City, Utah 84138
 OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE, \$300

FIRST - CLASS MAIL
 POSTAGE AND FEES PAID
 USDA - SC5
 SALT LAKE CITY, UTAH
 PERMIT NO. G-267

WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1984

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE TO WELL ABOVE AVERAGE

SNOW COVER ranges from 60% of the June average on the South Fork to 255% on the Lower Sevier. Beaver River snow cover is 122% of the June 1 average.

PRECIPITATION at mountain stations varied from 9% of the May average at Duck Creek R.S. to 140% at G.B.R.C. Meadows on Ephraim Creek.

SOIL MOISTURE is drier than average on the headwaters of the Sevier but wetter than average on the Beaver and Lower Sevier.

RESERVOIR STORAGE is above average with most reservoirs full and spilling.

STREAMFLOW FORECASTS range from 112% of the May-July average for the Sevier at Hatch to 1070% for the Sigurd to Gunnison reach. Other Sevier River forecasts are as follows: 144% at Circleville, 159% at Kingston, 281% Antimony Creek, 240% for East Fork, 278% for Clear Creek, 267% for Kingston to Vermillion, 805% for Vermillion to Gunnison, 926% for Salina Creek, 773% for Sevier near Gunnison.

Chalk Creek is forecast 616%, Oak Creek 173%, Chicken Creek 250%, Ephraim Creek 780%, Pleasant Creek 755%, and Salt Creek 225% of the May-July average.

Beaver River is forecast 243% near Beaver, 233% for North Creeks, and 393% for Minersville Inflow.

All streams have reached their snowmelt peaks by this time and are expected to recede but many are expected to have higher summer flow than usual because of the high peaks.

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST Thousand Acres Feet	Percent of Average		THOUSAND ACRE FEET Last Year	Average †
SEVIER RIVER					
Sevier at Hatch	47	112	May-July	129	42
Sevier nr Circleville	44	144	May-July	--	30
Sevier nr Kingston	35	159	May-July	121	22
Antimony Crk nr Antimony	16.0	281	May-July	--	5.7
East Fork Sevier nr Kingston1/	30	240	May-July	--	12.5
Sevier below Piute Dam	65	195	May-July	--	33
Clear Crk nr Sevier (abv Div)	45	278	May-July	--	16.2
Sigurd to Gunnison	230	1070	May-July	297	16.6
Kingston to Vermillion Dam	75	267	Apr-June	--	28
Vermillion Dam to Gunnison	285	805	Mar-June	--	19.0
Salina Creek at Salina	100	926	May-June	--	10.8
Sevier nr Gunnison	320	773	May-July	--	41
Chalk Creek nr Fillmore	81	616	May-July	--	13.2 ^b
Chicken Creek nr Levan	7.0	250	May-July	21	2.8 ^b
Oak Cr. nr Oak City	1.9	173	May-July	3.5	1.1 ^b
Ephraim Creek nr Ephraim	65	780	May-July	--	8.3
Pleasant Crk nr Mt. Pleasant	37	755	May-July	--	4.9
Salt Creek nr. Nephi	24	225	May-July	--	10.8
Beaver nr Beaver	51	243	May-July	70	21
North Creek (Combined)	34	233	May-July	--	12.7 ^a
Minersville Inflow	30	393	May-June	--	7.7

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SEVIER RIVER	Gunnison	18.2	18.2 ^a	18.2	13.4 ^b
	Otter Creek	52.5	52.7	52.7	40.3
	Piute	71.8	70.7	71.8	39.0
	Sevier Bridge	236.0	248.0	236.1	112.3
	Panguitch Lake	22.3	22.3 ^a	23.0 ^a	--
BEAVER RIVER	Minersville (Rky Fd)	26.0	24.0	23.3	13.4

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUBWATERSHED	Number of Catches Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER			
East Fork Sevier	4	8	131
South Fork Sevier	6	9	60
LOWER SEVIER	11	49	255
BEAVER RIVER	4	33	122
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Beaver River nr Beaver	530-800	257
Sevier River at Hatch	450-650	484
Sevier River nr Kingston	400-600	312
Clear Creek nr Sevier	350-450	226
Salina Creek nr Salina	800-1000	285

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Big Flat	5/25	40	19.5	35.7	14.1 ^b
Bryce Canyon	5/31	0	0.0 ^a	--	--
Castle Valley	5/25	0	0.0	13.5	0.0 ^b
Duck Creek	5/26	0	0.0	11.3	0.5 ^a
Farnsworth Lake	5/26	54	26.3	33.8	14.0 ^a
Gooseberry R.S.	5/26	0	0.0	10.8	0.8 ^b
Harris Flat	5/26	0	0.0	11.3	0.5 ^a
Kimberly Mine	5/25	18	9.5	27.4	3.2 ^b

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Long Valley Junction	5/26	0	0.0	0.0	0.0 ^b
Merchants Valley Upper	5/25	0	0.0	17.5	0.5 ^a
Midway Valley	5/25	0	0.0	44.9	12.1 ^b
Oak Creek	5/25	0	0.0	16.1	0.0 ^a
Otter Lake	5/25	14	6.2	24.8	6.4 ^a
Pickle Keg Springs	5/26	23	13.2	25.1	1.6 ^a
Pine Creek	5/25	32	16.3	33.9	1.9 ^a
Widtsoe-Escalante #3	5/26	0	0.0	11.5	0.9 ^a

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICEFederal Bldg., - Room 4012
Salt Lake City, Utah 84141COOPERATIVE SNOW SURVEYS
FURNISHES THE BASIC DATA
NECESSARY FOR FORECASTING
WATER SUPPLY FOR IRRIGATION,
DOMESTIC AND MUNICIPAL WATER
SUPPLY, HYDRO-ELECTRIC POWER
GENERATION, NAVIGATION,
MINING AND INDUSTRYPOSTAGE AND THIS FUND
PAID BY THE DEPARTMENT OF
AGRICULTURE

FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1984

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE ON VIRGIN RIVER AND NEAR AVERAGE ON COAL CREEK

SNOW COVER was present at only Brian Head snow course when measurements were taken May 25th and it had only 22% of its June 1 average and 7% of last year at this time.

PRECIPITATION at mountain stations varied from 7% of the May average at Little Grassy to 85% at Webster Flat.

SOIL MOISTURE is below average.

RESERVOIR STORAGE in Lake Powell is less than last year with 1,912,000 acre feet yet to fill. Smaller reservoirs are reported as not full and below average for June 1.

STREAMFLOW FORECASTS range from 54% of average for Santa Clara Creek to 196% for Lake Powell Inflow. Virgin River is forecast 65% of average at Hurricane and Coal Creek 123% of the May-July average.

Water users in this area without reservoir storage are expected to have short water supplies by mid-season this year.

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
VIRGIN RIVER					
Virgin nr Hurricane	20.0	65	May-June	171	38
Santa Clara nr Pine Valley	2.2	54	May-June	--	4.1
COAL CREEK					
Coal Creek nr Cedar City	19.0	123	May-July	54	15.4
UPPER COLORADO					
Lake Powell Inflow	12700	196	May-July	13400	5475

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
COAL CREEK	2	0	0
VIRGIN RIVER	3	0	0
PAROWAN CREEK	2	6	19
ENTERPRISE - NEW HARMONY	2	0	0
ESCALANTE RIVER	1	0	0
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
COLORADO	Lake Powell	25002.0	23090.0	24216.0	--
	Blue Mesa	829.5	653.0	562.0	--

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Coal Creek nr Cedar City	300-400	220
Virgin nr Hurricane	650-1000	1092

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Birch Crossing	5/31	0	0.0	0.0	0.0 ^b
Brian Head	5/25	6	2.4	32.3	10.6 ^b
Harris Flat	5/26	0	0.0	0.0	0.0 ^b
Kolob-Crystal	5/25	0	0.0	34.5	9.0 ^a
Little Grassy	5/25	0	0.0	0.0	0.0 ^b
Long Flat	5/25	0	0.0	0.0	0.0 ^b

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Long Valley Junction	5/26	0	0.0	0.0	0.0 ^b
SUSC Ranch	5/31	0	0.0	0.0	0.0 ^b
Tall Poles	5/31	0	0.0	16.3	1.5 ^b
Webster Flat	5/25	0	0.0	32.1	2.9 ^b
Yankee Reservoir	5/25	0	0.0	7.1	0.0 ^b

UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 Federal Bldg. - Room 4012
 Salt Lake City, Utah 84138

OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE \$300

FIRST - CLASS MAIL
 POSTAGE AND FEES PAID
 USDA - SCS
 SALT LAKE CITY, UTAH
 PERMIT NO. G -267

SNOW

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)						
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME												
GREAT BASIN												
UPPER BEAR RIVER (Above Harer, Idaho)												
Burts-Miller Ranch	5/28	0	0.0	0.0	0.0 ^b	5/28	1.39	2.32 ^b	14.66	13.99 ^b	105	
CCC Camp	not measured											
Hayden Fork	5/28	0	0.0	15.4	4.5 ^b	5/28	2.80 ^a	3.02 ^b	28.99 ^a	27.16	107	
Monte Cristo R.S.	5/29	28	14.9	32.9	9.9	5/29	3.91	2.83	37.06	34.00	109	
Salt River Summit	not measured											
Stillwater Camp	5/28	0	0.0	4.8	0.2 ^b	5/28	1.25	2.22	19.79	17.32	114	
Lily Lake	5/28	0	0.0	13.4	--	5/28	2.14		24.77			
LOWER BEAR RIVER (Below Harer, Idaho)												
Bug Lake	5/29	8	4.8	16.1	0.2 ^a	5/29	1.39	--	26.54 ^a	--	--	
Cub River R.S.	5/30	0	0.0	0.0								
Emigrant Summit												
Franklin Basin	5/30	30	16.3	33.4	10.6 ^a	5/30	6.00	--	47.31 ^a	--	--	
Garden City Summit	5/29	9	4.8	14.7	2.6	5/29	2.39	2.14	28.70	24.47	117	
Klondike Narrows	5/29	0	0.0	13.3	1.1 ^b	5/29	2.71	2.75	30.26	29.20 ^b	104 ^a	
Little Bear (lower)	5/29	0	0.0	0.0	0.0 ^b							
Little Bear (upper)	5/29	0	0.0	0.0	0.0 ^b	5/30	2.92	--	35.09	--	--	
Slug Creek Divide												
Steep Hollow #1	5/30	60	34.8	48.4	24.9 ^b							
Steep Hollow #2	5/30	18	9.9	27.7	7.0 ^b							
Tony Grove Lake	5/29	53	29.9	40.8	16.3 ^a	5/29	6.19	--	52.81 ^a	--	--	
Tony Grove R.S.	5/29	0	0.0	0.0	0.0 ^b	5/29	2.43	1.56 ^b	29.75	29.97 ^b	99	
Willow Flat	5/30	0	0.0	0.0	--	5/30	3.17	2.85 ^b	37.53	30.36	124	
OGDEN RIVER												
Beaver Creek-Skunk Creek	5/29	0	0.0	0.0	0.0 ^b							
Ben Lomond Peak	5/29	52	32.0	53.2	16.0 ^a	5/30	3.63 ^a		74.49 ^a			
Ben Lomond Trail	5/29	0	0.0	0.0	0.0	5/30	3.24	3.05 ^b	45.83 ^a	37.17 ^b	123	
Causey Dam	5/29	0	0.0	0.0		5/29	2.06	1.86 ^b	20.49	18.50	111	
Dry Bread Pond	5/29	4	2.0	17.0	2.4 ^b	5/29	3.31	2.62 ^b	34.31 ^a	27.90	123 ^a	
Sagebrush Flat	5/29	0	0.0	0.0	0.0 ^b	5/29	2.12	1.75 ^b	18.31	18.58	99	
WEBER RIVER												
East Shingle Lake (A)	5/31	30	16.8	37.5	--							
Beaver Creek R. S.	5/28	0	0.0	0.0	0.0 ^b							
Chalk Creek #1	5/28	25	13.4	30.1	12.9 ^a	5/28	2.94 ^a	--	35.65 ^a	--	--	
Chalk Creek #2	5/28	0	0.0	11.0	1.3 ^a	5/28	2.19 ^a	2.25	23.82 ^a	19.64	121	
Chalk Creek #3	5/28	0	0.0	0.0	0.0 ^b	5/28	1.42	2.17 ^b	23.32	17.76 ^b	131	
Farmington Canyon (lower)	5/28	26	14.5	33.0	0.0 ^b	5/28	5.30	4.32	45.98	38.24	120	
Farmington Canyon (upper)	5/29	47	26.7	51.8	12.0 ^b	5/28	5.38 ^a	6.24 ^a	50.25 ^a	46.13 ^a	108	
Farmington G.S.	5/28	0	0.0	34.7 ^a	--	5/28	4.80	5.20 ^b	42.04 ^a	38.44	109	
Horse Ridge	5/29	14	7.8	18.1	1.9 ^b	5/28	3.70	2.62 ^b	37.98	31.00	122	
Kilfoil Creek	5/29	0	0.0	1.6	0.1 ^b							
Lost Creek Reservoir	5/29	0	0.0	0.0	0.0 ^b	5/29	2.41	--	17.41	--	--	
Park City Summit	not measured			32.2 ^a	--							
Parley's Canyon Summit	5/30	0	0.0	6.7	0.7 ^a	5/30	2.37	2.80	36.01	30.38	119	
Pine Canyon	5/30	0	0.0	12.6	0.0							
Redden Mine (lower)	5/28	1	0.4	18.2	3.0 ^a	5/28	1.63	--	24.77	--	--	
Sargeant Lakes	5/31	0	0.0	6.0	--							
Smith & Morehouse	5/28	0	0.0	3.0	0.4 ^a	5/28	1.80	2.46	25.77	24.47	105	
Hardscrabble	5/28	0	0.0	12.6	--							
PROVO RIVER & UTAH LAKE												
Beaver Creek Divide	5/28	0	0.0	0.6	1.1 ^a	5/28	3.44		28.00 ^a			
Clear Creek Ridge #1	5/27	11.3	5.4	23.4	2.8 ^a	5/27	2.00 ^a	--	31.00 ^a	--	--	
Clear Creek Ridge #2	5/27	0	0.0	11.4	0.2 ^b	5/27	1.43	2.01	25.51 ^a	21.38	119	
Clear Creek Ridge #3	5/23	0	0.0	0.0	0.0 ^a							
Hobbie Creek Summit	5/27	0	0.0	6.7	0.0 ^b	5/27	1.41	2.15	27.84 ^a	22.54	124	
Payson R.S.	5/25	12	5.6	22.4	0.7 ^b	5/25	2.74	1.98	32.99	23.51	140	
Soapstone R.S.	5/28	0	0.0	0.0	0.2 ^a	5/28	1.44	20.5	25.39	21.84	116	
South Fork R.S.	not measured											
Timpanogos Divide	6/1	0	0.0	24.1	4.3 ^b	6/1	2.00 ^a	2.78	33.04 ^a	32.17	103	
Trial Lake	5/29	31	17.3	35.5	19.7 ^b	5/29	2.35	2.72	34.63	31.45	110	

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
JORDAN RIVER & GREAT SALT LAKE											
Alta Central	6/2	64	33.7	--	--						
Lamb's Canyon #2	5/31	0	0.0	7.7	0.5 ^b	5/31	not measured				
Middle Canyon	not measured										
Mill Creek	5/30	18	9.4	24.3	5.1 ^a						
Mill D South Fork	5/30	0	0.0	19.0	2.4 ^a						
Rocky Basin-Settlement	not measured										
Silver Lake (Brighton)	5/30	19	14.2	41.0	12.0 ^b						
Snow Bird (Gad Valley)	6/1	55	34.8	--	--						
Vernon Creek	6/1	0	0.0	0.0	0.0 ^b	6/1	1.00 ^a	2.05 ^b	24.80 ^a	19.90	125
Deseret Peak	not measured										
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley Twin Lakes A	5/31	0	0.0	27.0	--						
Black's Fork G.S.-East Fork	5/28	0	0.0	11.2	1.3 ^b	5/28	2.21	--	21.40 ^a	--	--
Black's Fork Junction	5/28	0	0.0	6.3	0.6 ^b	5/28	1.92	--	19.24	--	--
Buck Pasture A	5/31	6	2.6	15.0	--						
Burnt Creek	5/31	0	0.0	0.0	0.3 ^b	5/31	1.25	--	18.20	--	--
Grizzly Ridge	5/31	0	0.0	0.0	1.0 ^b	5/31	1.65	2.90 ^b	22.60	19.50	116
Henry's Fork A	5/31	0	0.0	16.5	--						
Hewinta G.S.	5/28	0	0.0	11.6	2.0 ^b	5/28	2.11	--	22.26	--	--
Hickerson Park	5/28	0	0.0	14.7	0.1 ^b	5/28	1.39	2.57 ^b	16.70	15.54	107
King's Cabin (upper)	5/28	0	0.0	8.4	1.0 ^b	5/28	1.41	3.01	19.88	17.59	113
Reynolds Park A	5/31	0	0.0	31.5	--						
Spirit Lake	5/28	0	0.0	26.5	7.3 ^b	5/28	2.55	3.68 ^b	24.40	22.38 ^b	109
Steel Creek Park	5/28	34	14.5	25.9	11.9 ^a	5/28	2.46	--	23.50	--	--
Trout Creek	5/28	0	0.0	14.2	1.5 ^b	5/28	1.38	--	17.47	--	--
DUCHESNE RIVER											
Atwood Lake A	5/31	0	0.0	19.5	--						
Brown Duck Ridge	5/28	25	10.6	26.9	15.3 ^a	5/28	1.26	--	27.16 ^a	--	--
Chepeta	5/28	0	0.0	24.2	--	5/28	2.44 ^a	--	21.27 ^a	--	--
Chepeta-Whiterocks A	5/31	3	1.5								
Currant Creek	5/21	0	0.0	0.0	0.0 ^b	5/27	1.43	1.58 ^b	19.20	17.78	108
Daniels-Strawberry Summit	5/27	0	0.0	11.0	0.2 ^a	5/27	2.65	1.90 ^b	25.98	22.99	113
East Portal	5/31	0	0.0 ^a	0.0	0.0 ^b	6/1	1.46		27.39		
Indian Canyon	5/27	0	0.0	17.4	1.4 ^b	5/27	1.19	1.71 ^b	18.20	17.37 ^b	105
Jackson Park	5/28	0	0.0	20.4	8.8 ^a	5/28	1.14	--	23.66	--	--
Lake Fork Basin A	5/31	21	8.8	26.5	15.4 ^a						
Lakefork Mountain #1	5/28	0	0.0	17.9	3.6 ^b	5/28	1.52	2.60	18.74	18.30	102
Lakefork Mountain #3	5/28	0	0.0	0.0	0.0 ^b						
Lightning Lake A	5/31	54	22.7	36.0	21.7 ^a	5/31	3.50 ^a	--	38.60 ^a	--	--
Mosby Mountain	5/28	0	0.0	19.0	3.2 ^b	5/28	1.12	2.62 ^b	19.01	17.80	107
Paradise Park	5/28	0	0.0	25.4	7.3 ^b	5/28	1.40	2.50	19.06	20.56	93
Rock Creek Ranch	5/28	0	0.0	0.0	0.0 ^a	5/28	1.09	1.83	17.25	15.35	112
Strawberry Divide	5/31	0	0.0 ^a	--	0.0 ^b	5/31	1.70 ^a	--	30.60 ^a	--	--
PRICE RIVER											
Dry Valley Divide Alternate	5/27	0	0.0	4.1	0.0 ^b						
Five Points Lake A	5/31	6	2.5	22.5	11.8 ^a						
Mud Creek	5/27	0	0.0	8.1	0.0 ^b	5/27	2.37	1.95	27.08	19.16	141
White River #1	5/27	0	0.0	12.3	0.3 ^b	5/27	1.32	1.71 ^b	23.52	17.77	132
White River #3	5/27	0	0.0	0.0	0.0 ^b						
SAN RAFAEL RIVER											
Buck Flat	5/26	17	9.1	27.7	4.1 ^b	5/26	2.53	2.52	33.48	22.97	146
Huntington-Horseshoe	5/27	44	23.8	50.1	19.6 ^a						
Orange Olsen	5/27	0	0.0	0.0	0.0 ^b	5/27	0.97	0.97 ^b	14.80	9.50	156
Red Pine Ridge	5/27	14	6.9	22.7	1.8 ^b	5/27	3.38	2.22	30.16 ^a	25.61	117
Seeley Creek R.S.	5/26	42	22.4	32.9	8.2 ^a						
Stuart R.S.	5/27	0	0.0	0.0	0.0 ^b	5/27	2.37	1.65	22.24	15.42	144
Upper Joe's Valley	5/27	0	0.0	4.7	0.0 ^b						
Wrigley Creek	5/26	0	0.0	8.7	0.0 ^b						
MUDDY RIVER											
Black's Fork	5/26	0	0.0	16.3	1.3 ^a						
Dill's Camp	5/26	0	0.0	13.0	0.9 ^a	5/26	2.05	--	27.49	--	--

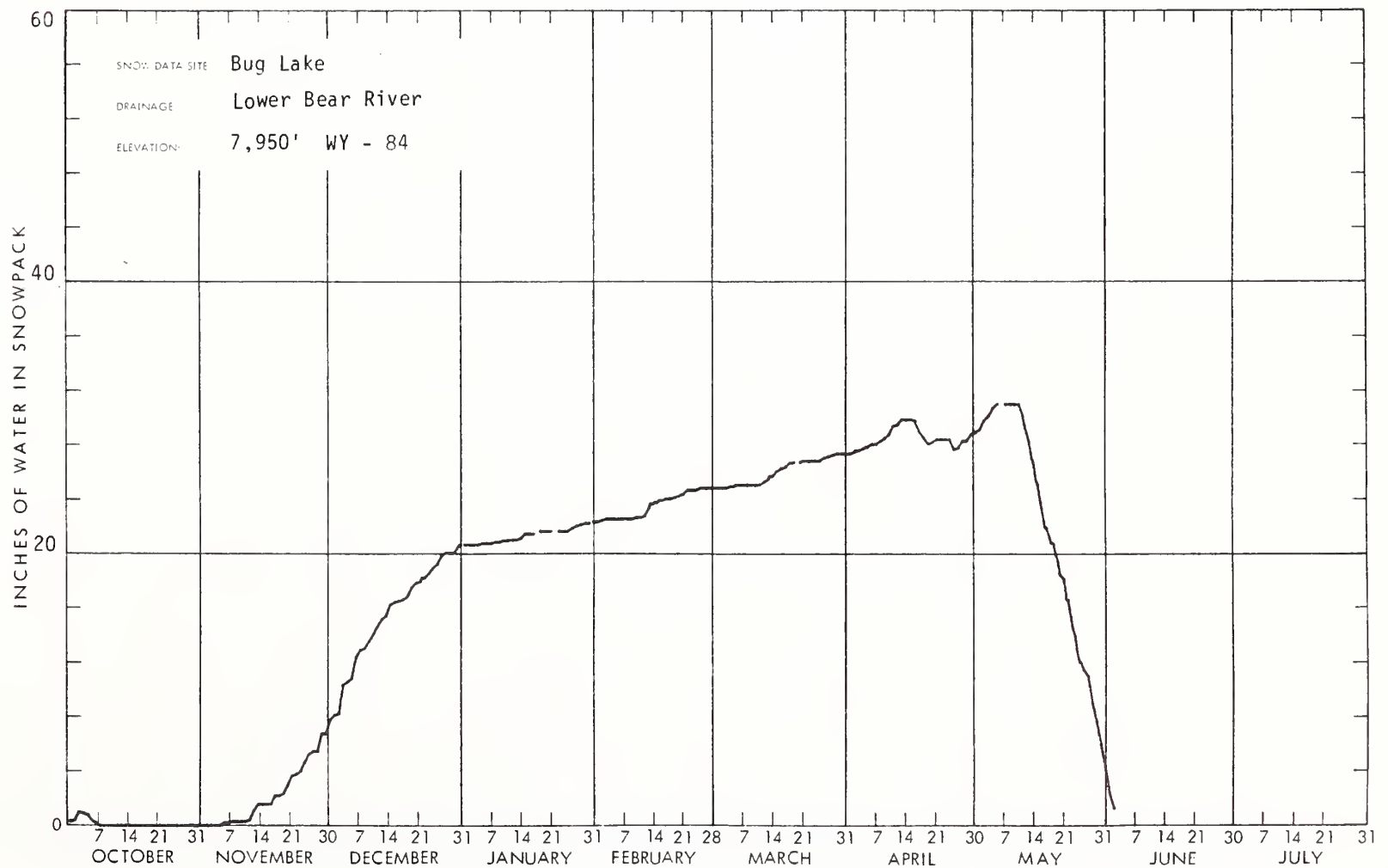
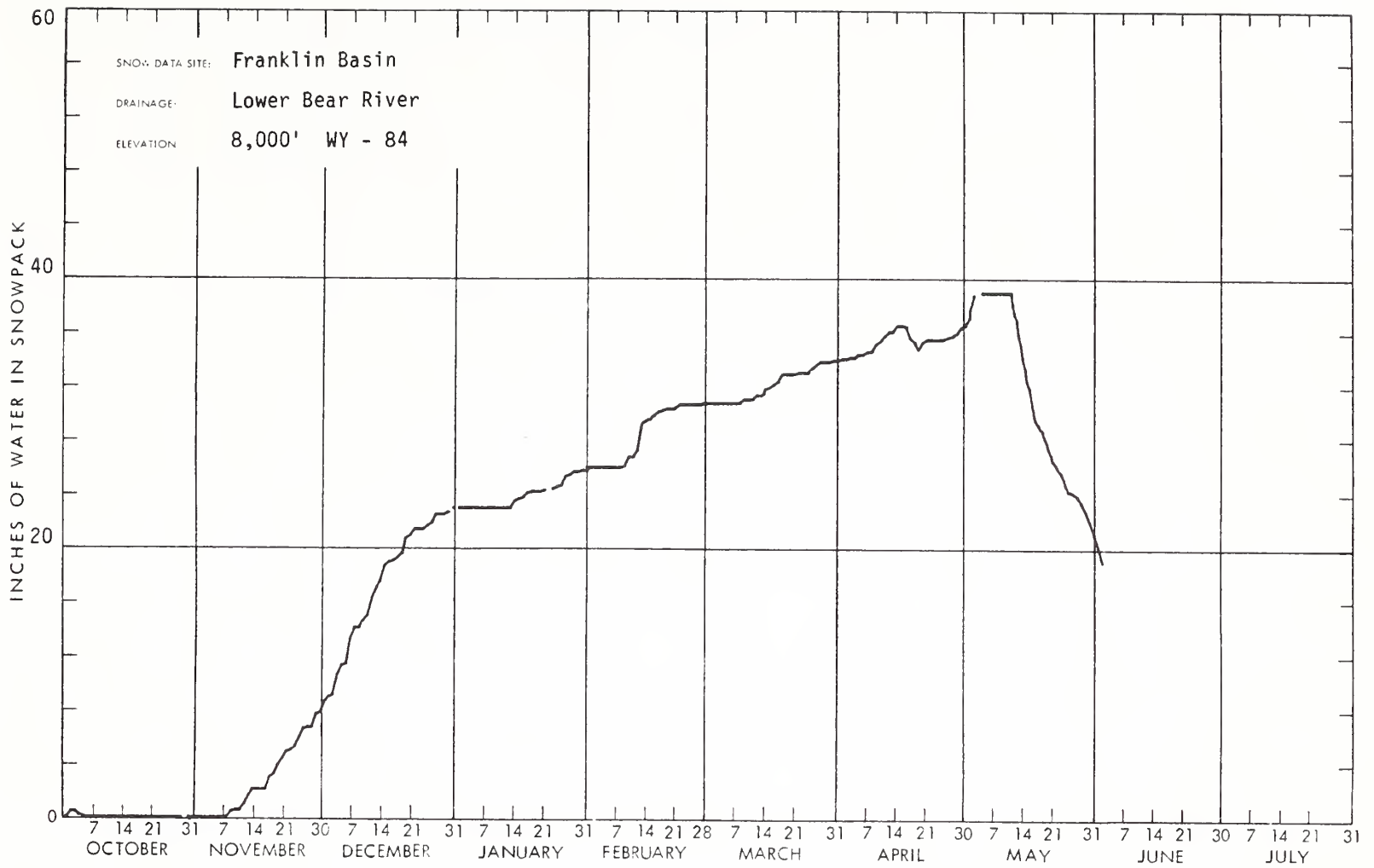
SNOW

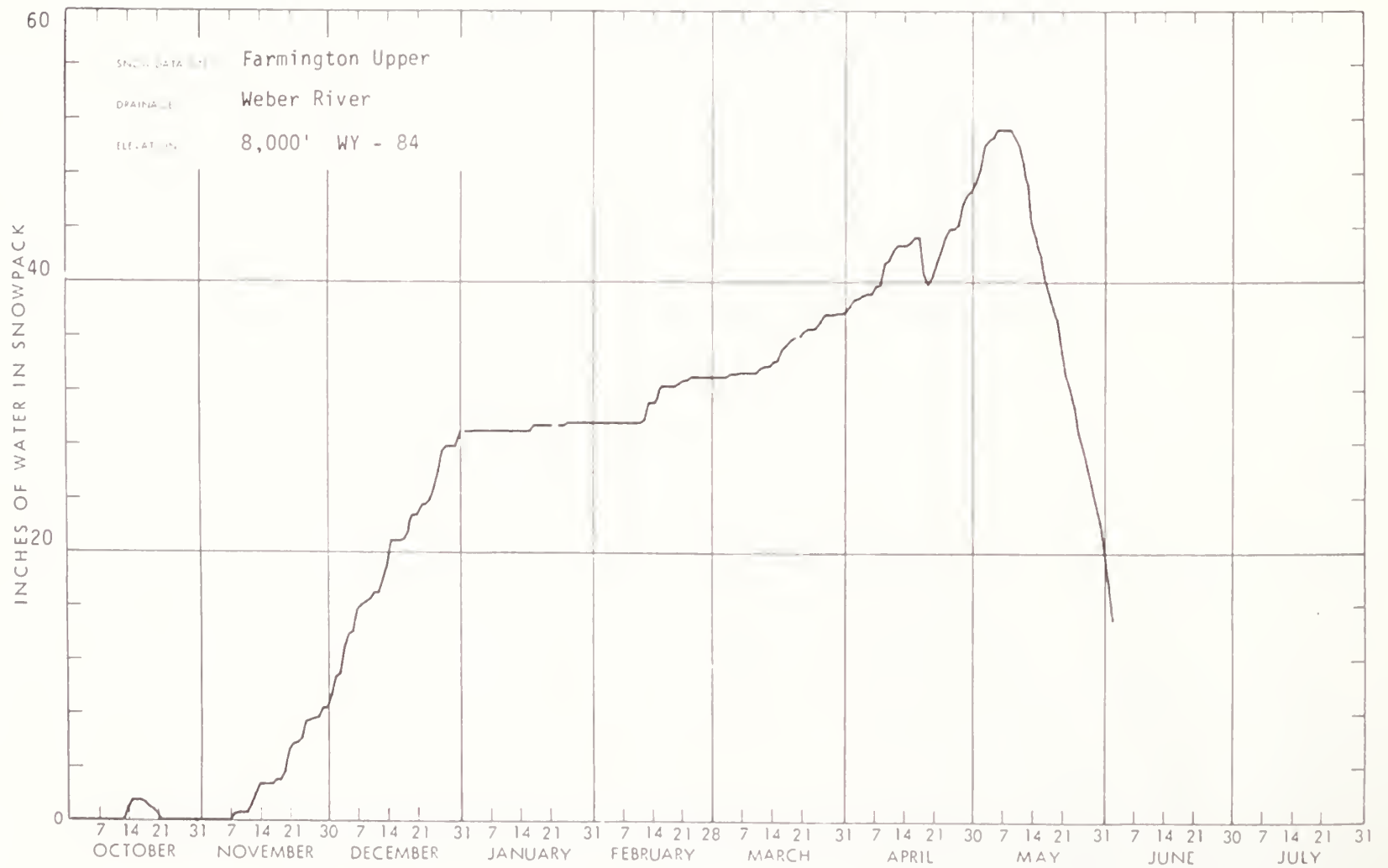
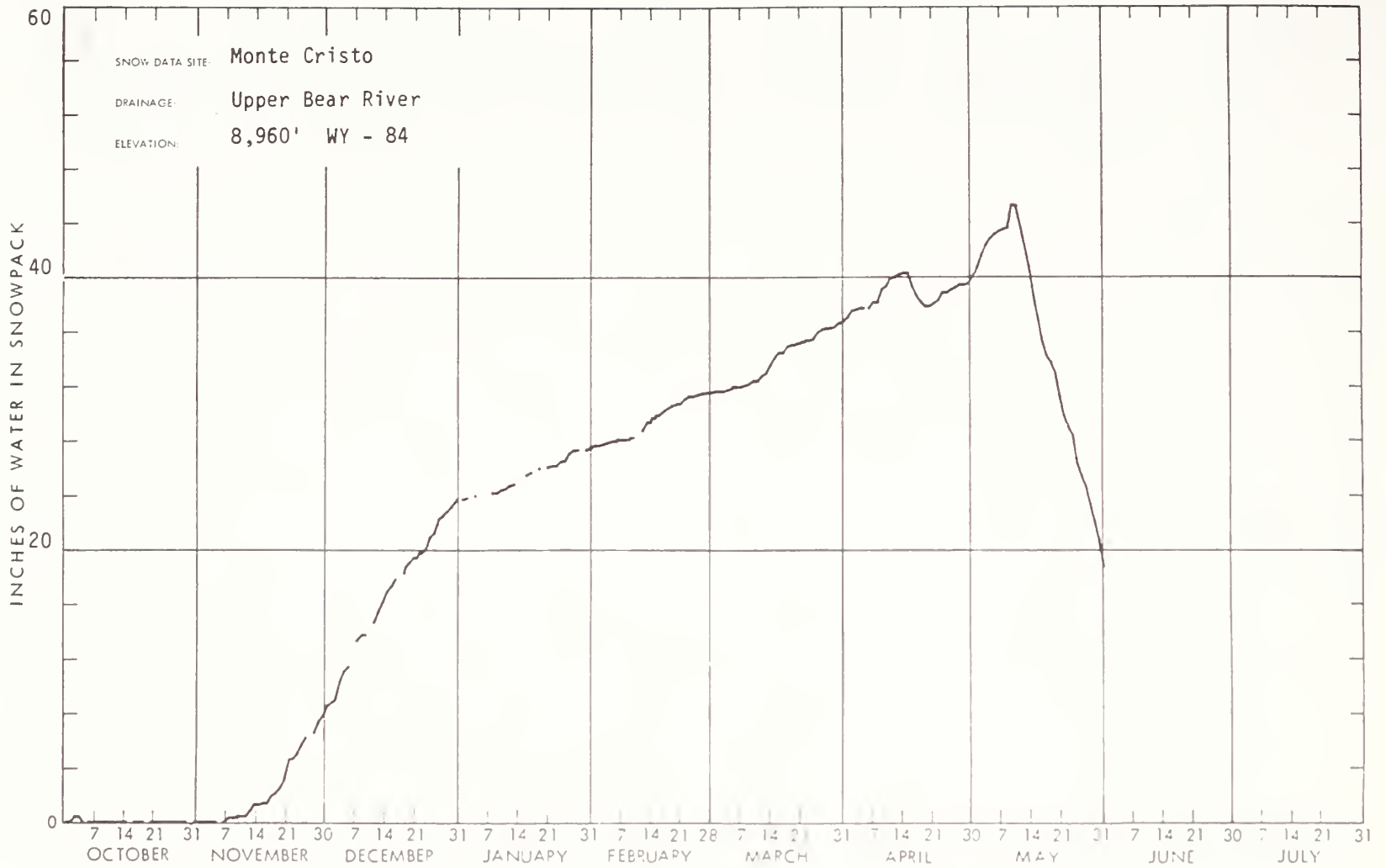
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
FREMONT RIVER											
Black's Flat-U.M. Creek	5/26	0	0.0	8.4	0.3 ^b	5/26	1.95	1.81	24.66	16.28	151
Fish Lake	5/26	0	0.0	0.0	0.0 ^b	5/26	1.28	1.39	24.64	12.39	199
Johnson Valley	5/26	0	0.0	0.0	0.0 ^b						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	5/30	0	0.0	8.4	0.4 ^b	5/30	1.30	1.94	23.77	22.83	104
Camp Jackson	5/30	0	0.0	7.4	0.0 ^b	5/30	0.45	1.56	18.83	20.76	90
LaSal Mountain (lower)	5/31	0	0.0	7.8	0.0 ^b						
LaSal Mountain (upper)	5/31	0	0.0	26.1	2.7 ^a	5/31	0.65	2.21	29.66	19.38	153
Monticello City Park	5/30	0	0.0	0.0	0.0 ^b						
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	5/26	6	2.9	18.3	1.3 ^b	5/26	1.31	1.88	27.89	18.29	152
Bryce Canyon	5/25	0	0.0	0.0	0.0 ^b						
Castle Valley	5/25	0	0.0	13.5	0.0 ^b	5/25	.41	1.62	24.96	18.75	133
Duck Creek R.S.	5/26	0	0.0	11.3	0.5 ^a	5/26	.19	1.91	18.86	21.55	88
Harris Flat	5/26	0	0.0	0.0	0.0 ^b	5/26	.25	--	9.20 ^a	--	--
Kimberly Mine	5/25	18	9.5	27.4	3.2 ^b	5/25	1.00 ^a	2.15	40.53 ^a	24.76	163
Midway Valley	5/25	0	0.0	44.9	12.1 ^b	5/25	2.37	--	26.40	--	--
Panguitch Lake	5/25	0	0.0	0.0	0.0 ^b	5/25	.21	1.04	12.75	10.43	122
Squaw Springs	5/26	0	0.0	4.7	0.0 ^b						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	5/26	0	0.0	9.2	0.0 ^b	5/26	2.11	2.10 ^b	33.17	18.44	180
Farnsworth Lake	5/26	54	26.3	33.8	14.0 ^a	5/26	3.42	--	41.34 ^a	--	--
G.B.R.C. Headquarters	5/26	24	13.0	27.1	3.1 ^b	5/26	2.44	2.38	37.82	24.93	152
G.B.R.C. Majors					--			1.51 ^b	12.17		
G.B.R.C. Meadows	5/26	56	30.5	47.5	14.4 ^b	5/26	3.63	2.60	44.15	29.80	148
G.B.R.C. Oaks					--			1.78	16.66		
Gooseberry R.S.	5/26	0	0.0	10.8	0.8 ^b	5/26	1.90	1.83 ^b	30.68	17.95 ^b	171
Mammoth-Cottonwood Creek	5/27	20	11.2	37.1	4.8 ^b	5/27	3.37	--	35.47 ^a	--	--
Mt. Baldy R.S.	5/26	55	29.8	45.0	14.5 ^b	5/26	1.79	2.67 ^b	34.33	23.51 ^b	146
Oak Creek	5/25	0	0.0	16.1	0.0 ^a	5/25	1.40	1.83 ^b	29.90	21.62	138
Pickle Keg Springs	5/26	23	13.2	25.1	1.6 ^a	5/26	3.37	--	44.43	--	--
Pine Creek	5/25	32	16.3	33.9	1.9 ^a	5/25	.89	3.00	53.93 ^a	30.70	176
Ree's Flat	5/25	0	0.0	3.6	0.0 ^a	5/25	2.86	--	29.34	--	--
Shingle Mill				0.0	0.0 ^b			2.14 ^b	21.69		
Gooseberry Reservoir						5/26	1.90	2.33	30.68	24.04	128
BEAVER RIVER											
Beaver Canyon Power House											
Beaver Race Track	5/25	0	0.0	0.0	0.0 ^b						
Big Flat	5/25	40	19.5	35.7	14.1 ^b	5/25	1.72	2.71	31.74	21.71	146
Merchant's Valley (upper)	5/25	0	0.0	17.5	0.5 ^a	5/25	1.25	1.88	27.50	19.09	144
Otter Lake	5/25	14	6.2	24.8	6.4 ^a						
PAROWAN CREEK											
Birch Crossing	5/31	0	0.0	0.0	0.0 ^b						
Brian Head	5/25	6	2.4	32.3	10.6 ^b						
Tall Poles	5/31	0	0.0	16.3	1.5 ^b	5/31	0.60	1.42 ^b	24.23	19.79 ^b	122
Yankee Reservoir	5/25	0	0.0	7.1	0.0 ^b	5/25	0.57	1.43	16.42	16.57	99
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	5/25	0	0.0	0.0	0.0 ^b	5/25	0.06	0.88 ^b	14.03	15.61 ^b	90
Long Flat	5/25	0	0.0	0.0	0.0 ^b	5/25	0.12	1.23 ^b	11.33	14.24 ^b	80
COAL CREEK											
Cedar City Golf Course	5/31	0	0.0	0.0	0.0 ^b						
SUSC Ranch	5/31	0	0.0	0.0	0.0 ^b						

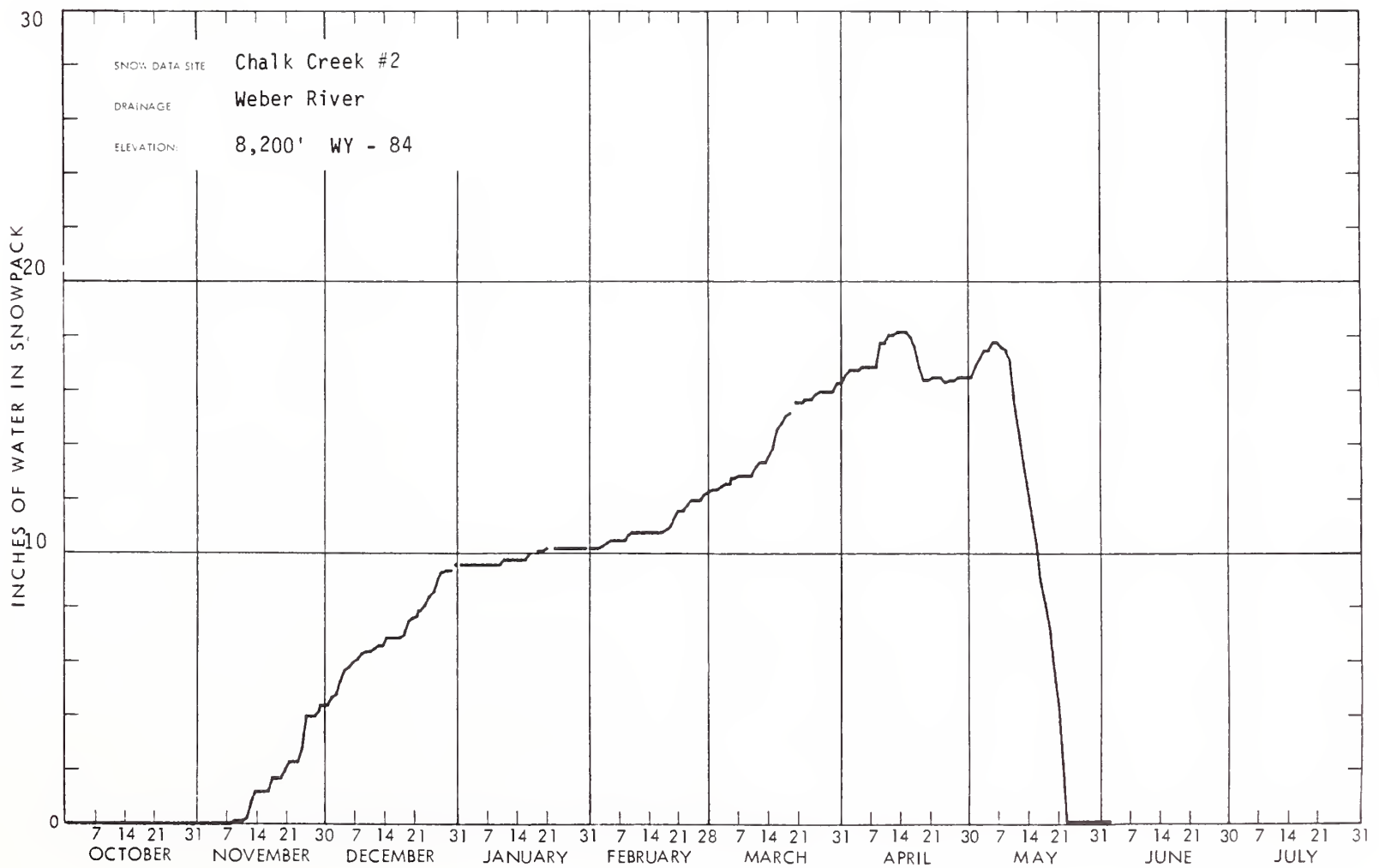
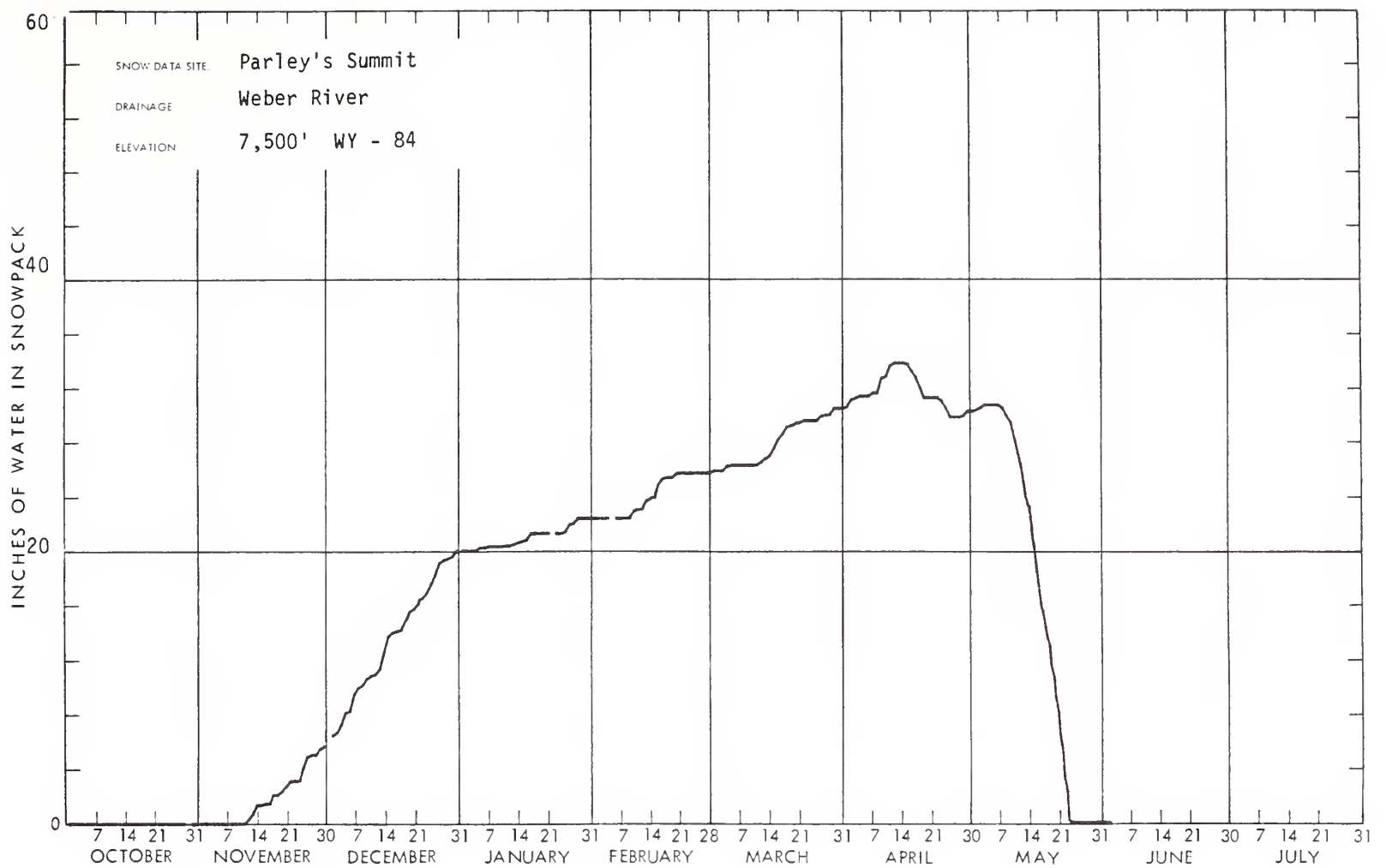
SNOW

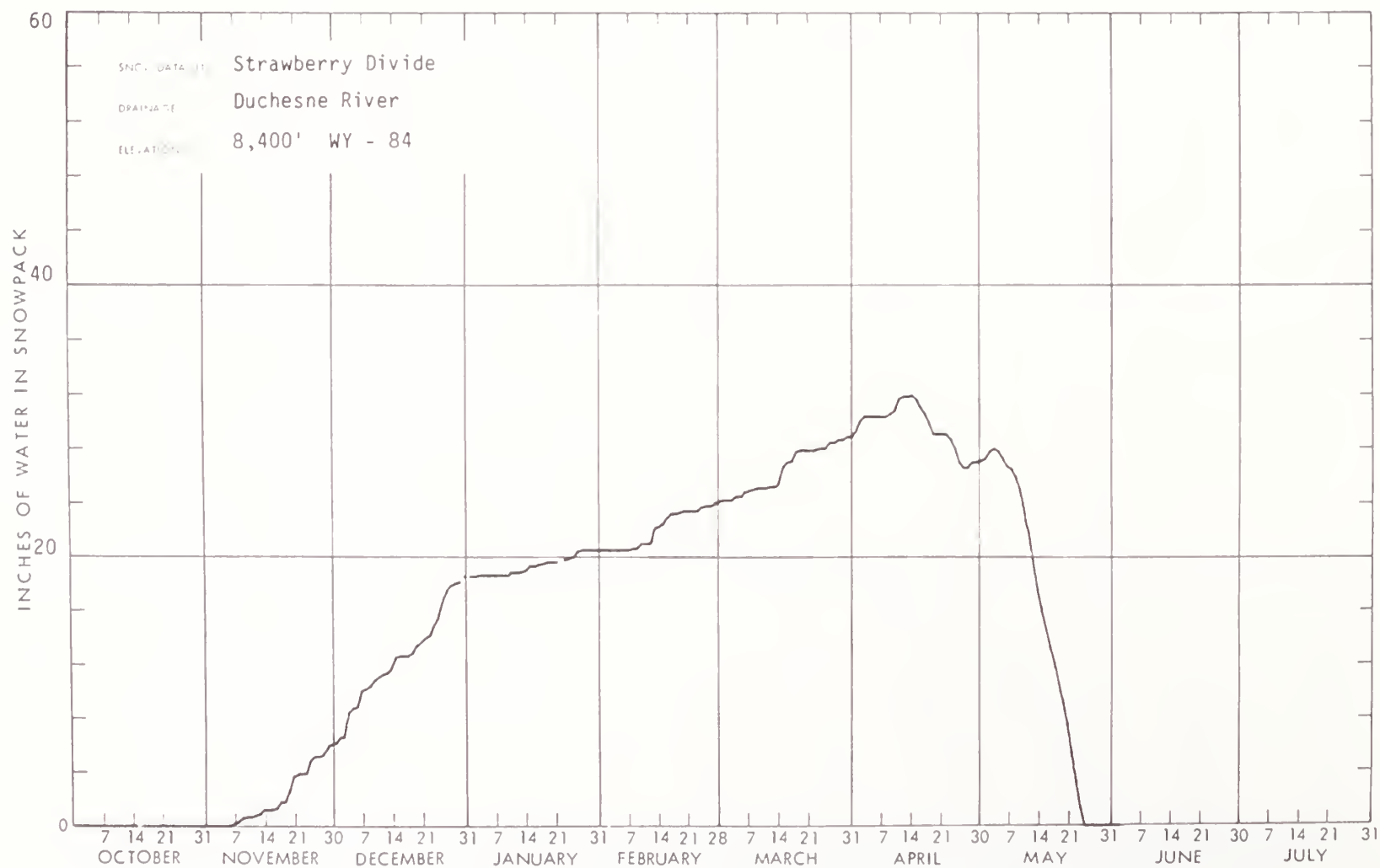
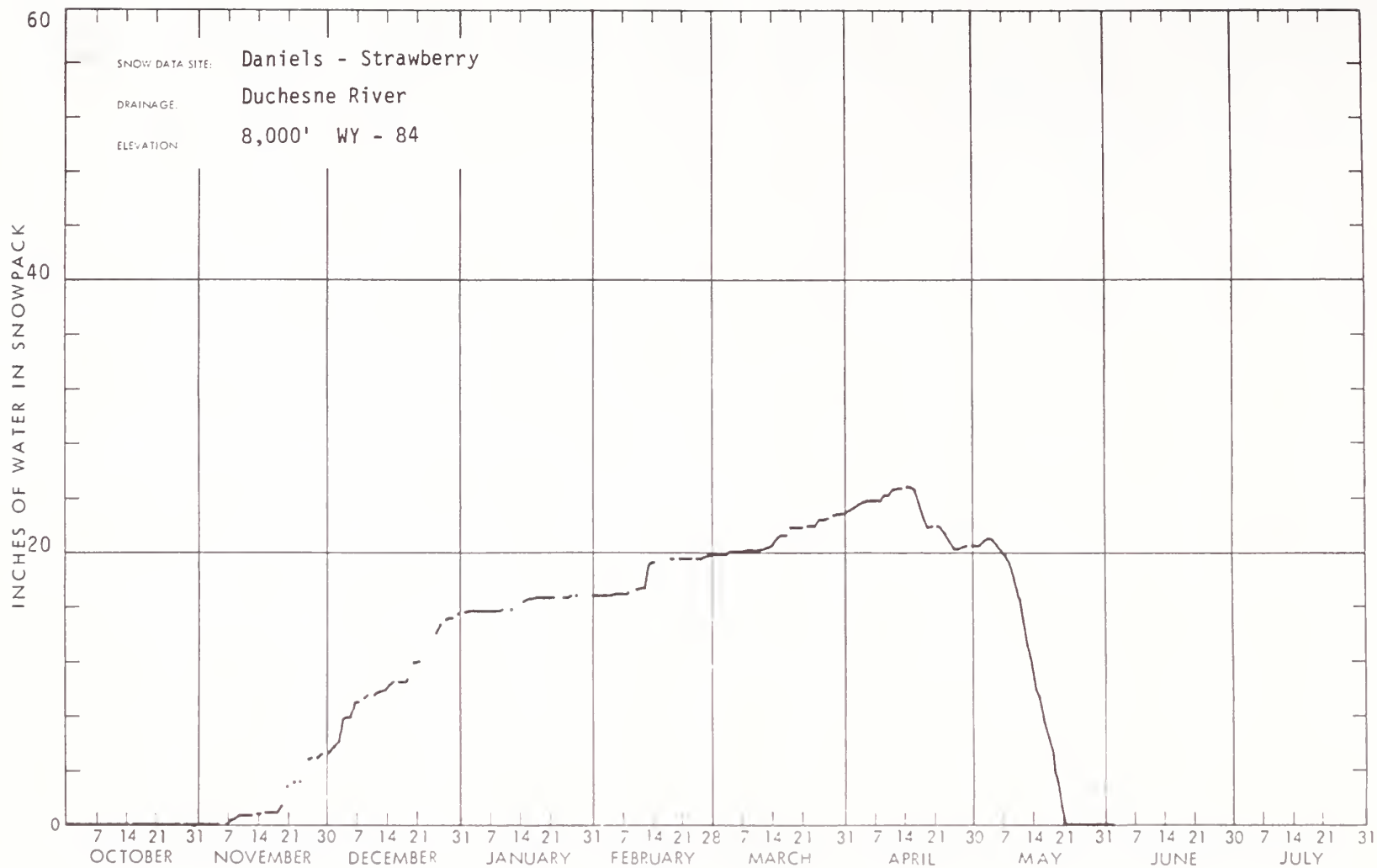
PRECIPITATION (Inches)

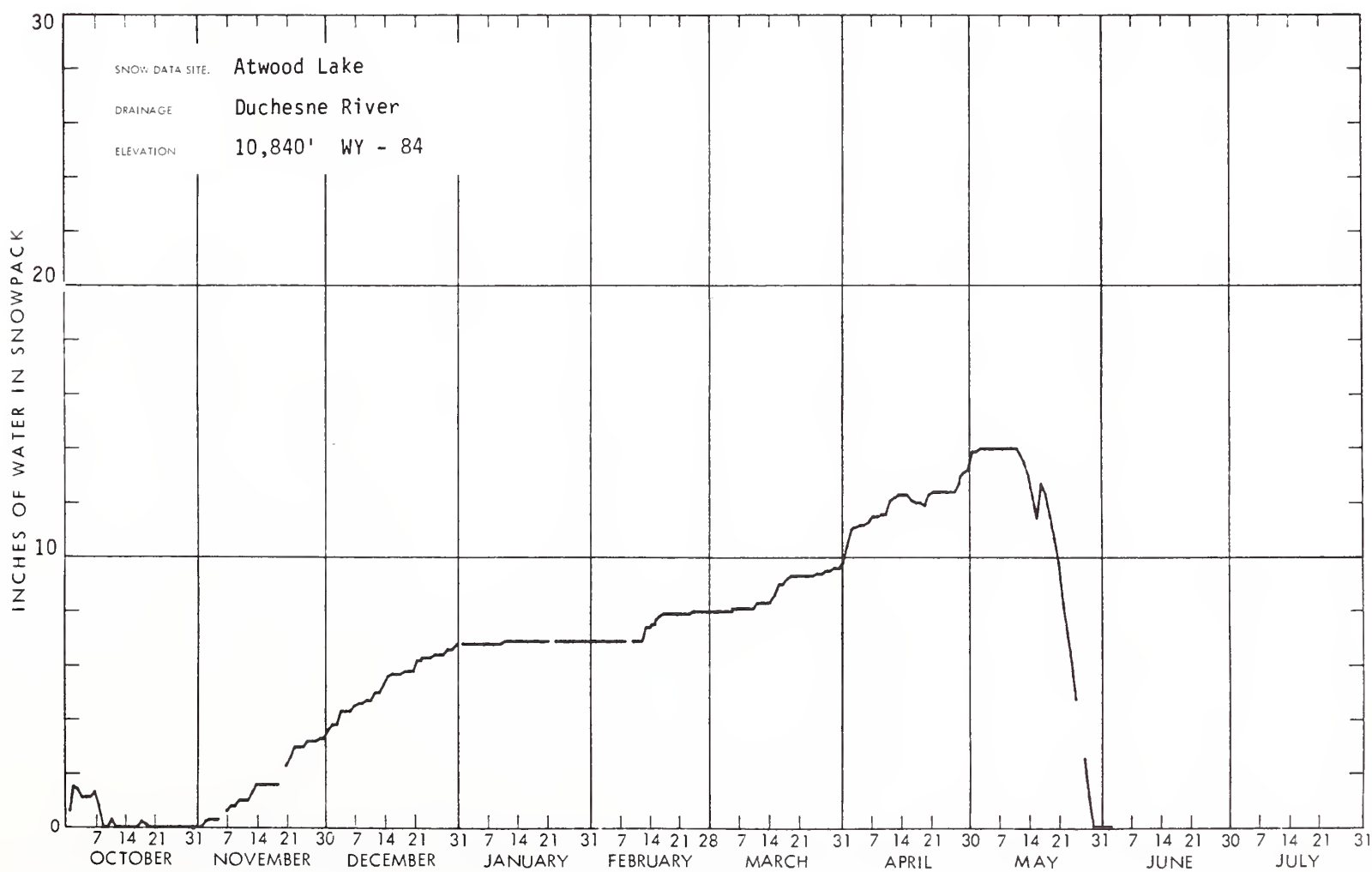
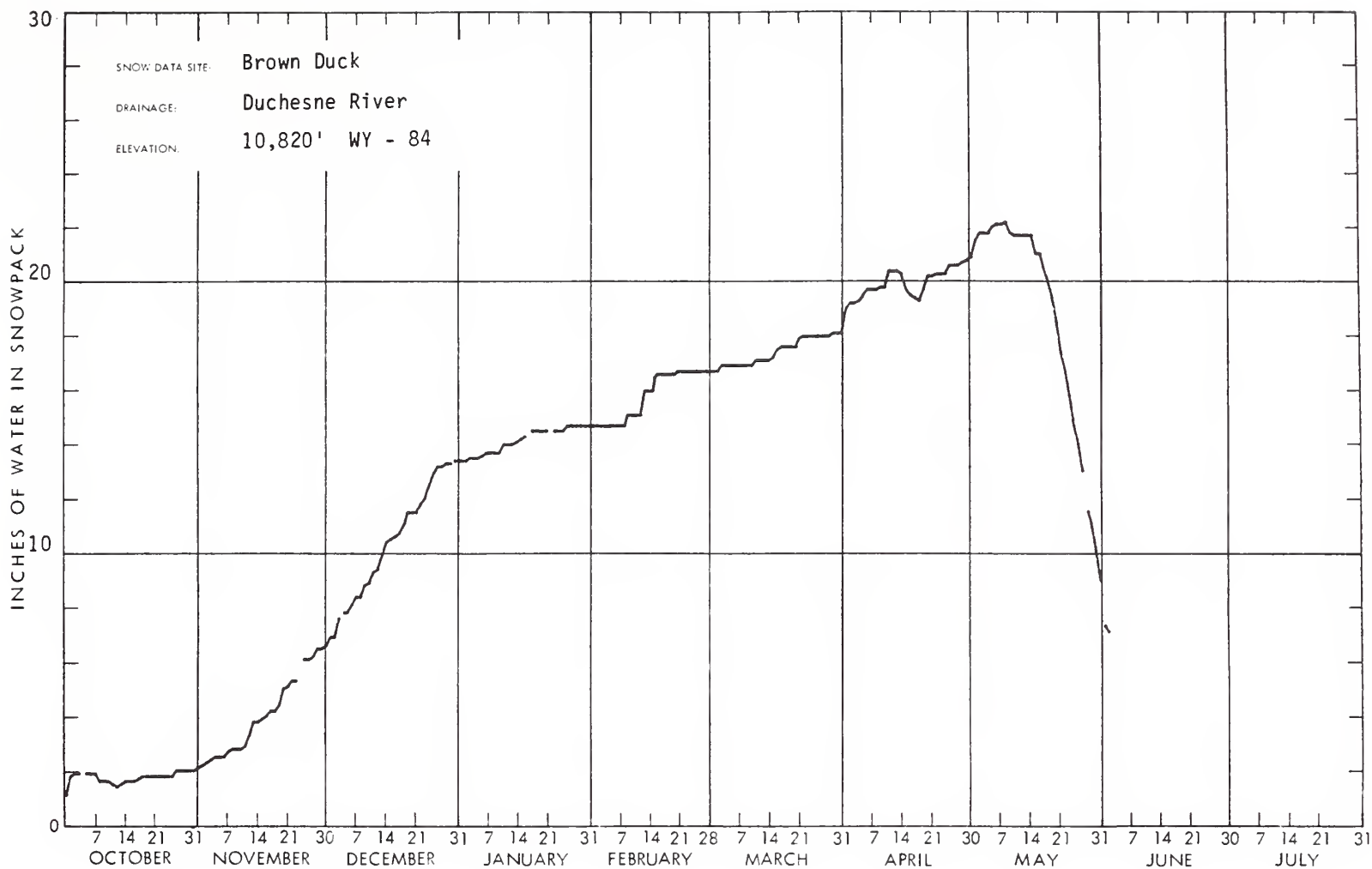
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
				Last Year	Average +						
ESCALANTE RIVER											
Widtsoe-Escalante #3	5/26	0	0.0	11.5	0.9 ^a	5/26	0.22	1.81	17.87	17.02	104
VIRGIN RIVER											
Kolob-Crystal	5/25	0	0.0	34.5	9.0 ^a	5/25	1.25	--	27.20 ^a	--	--
Long Valley Junction	5/26	0	0.0	0.0	0.0 ^b						
Webster Flat	5/25	0	0.0	32.1	2.9 ^b	5/25	1.63 ^a	1.90 ^b	26.54 ^a	24.98 ^b	106
a - Partly Estimated b - Average of past record in average period - less than 20 years + - 1961-80 20 year average period (A) - Aerial Marker Reading											

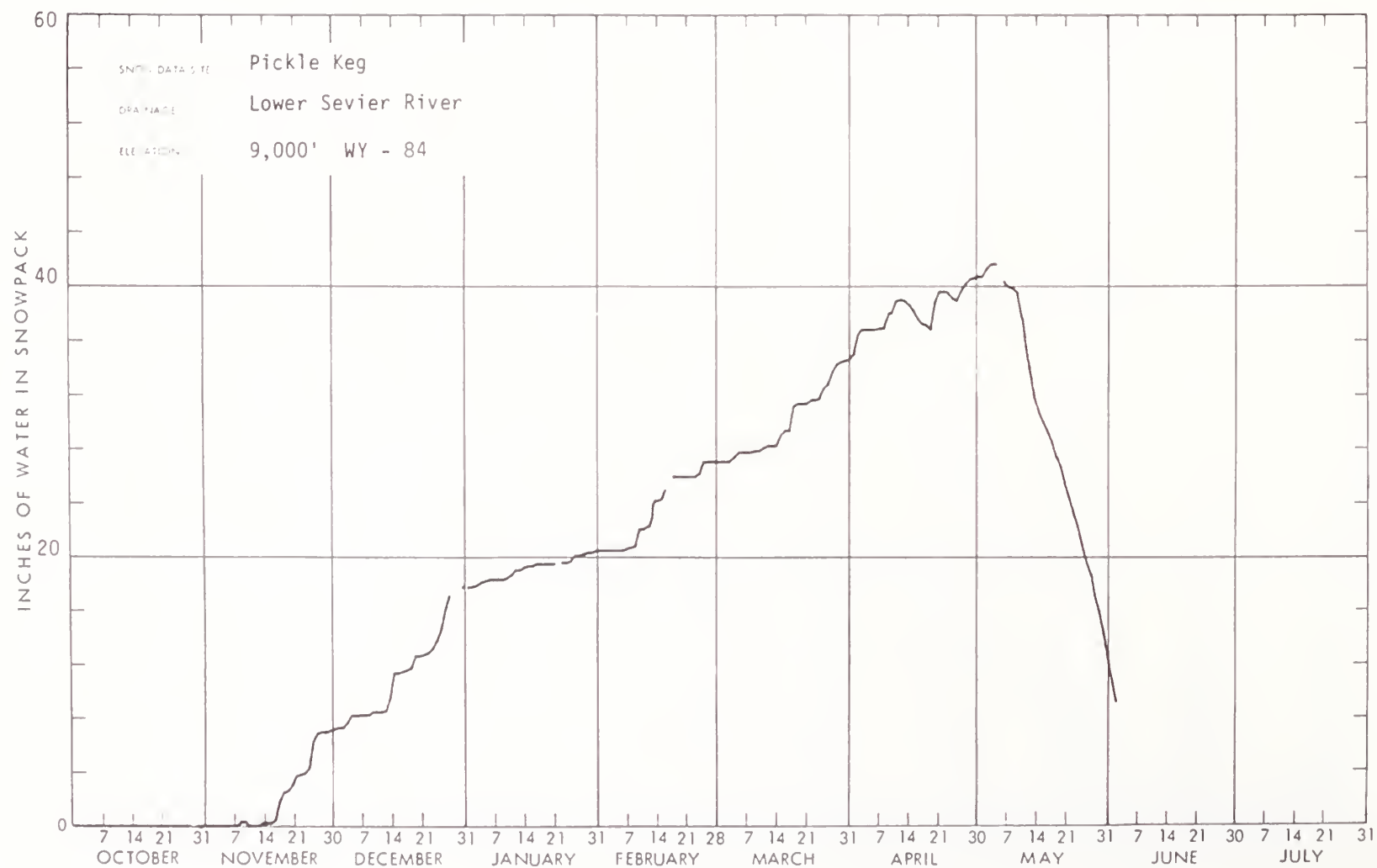
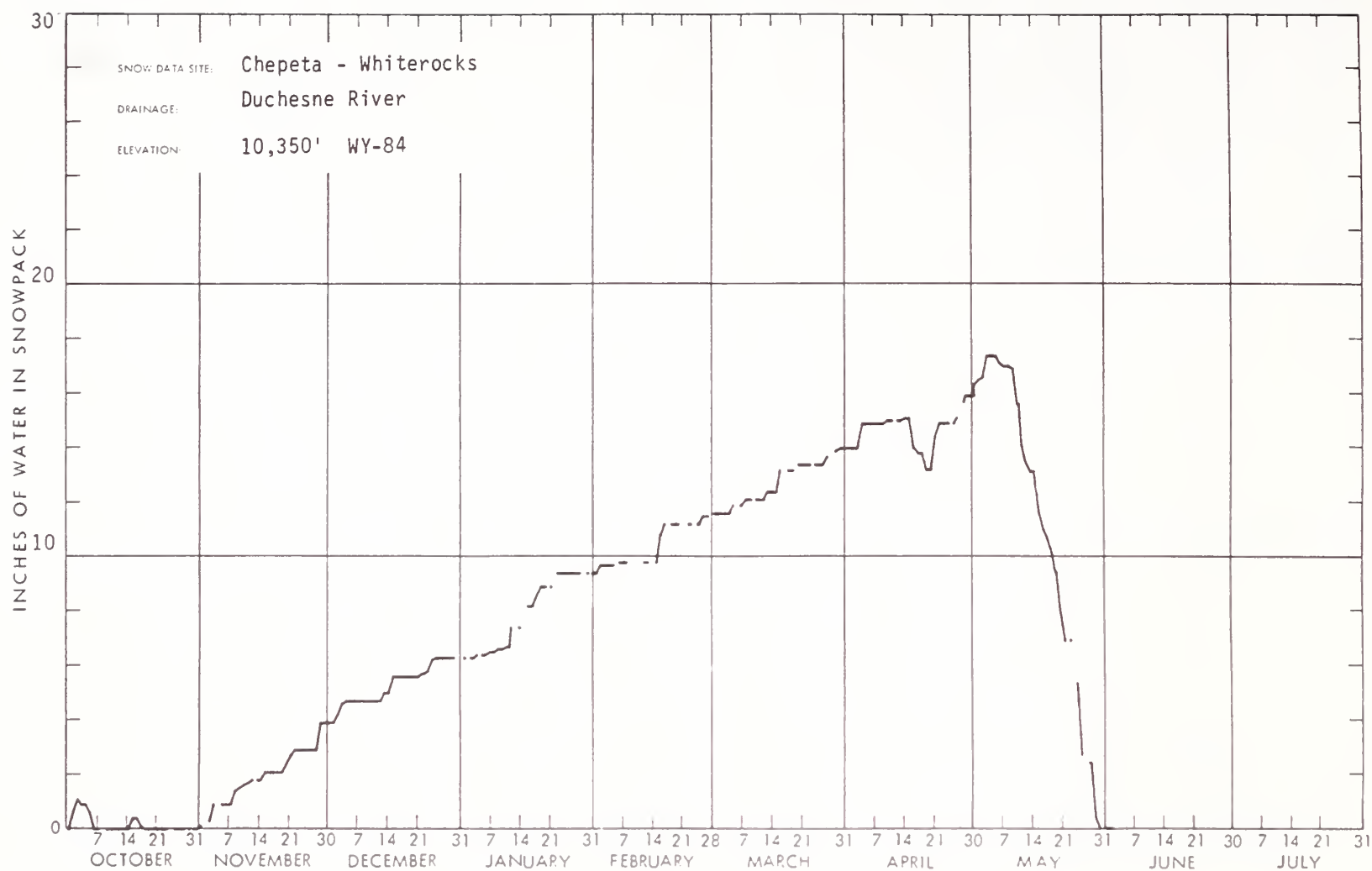


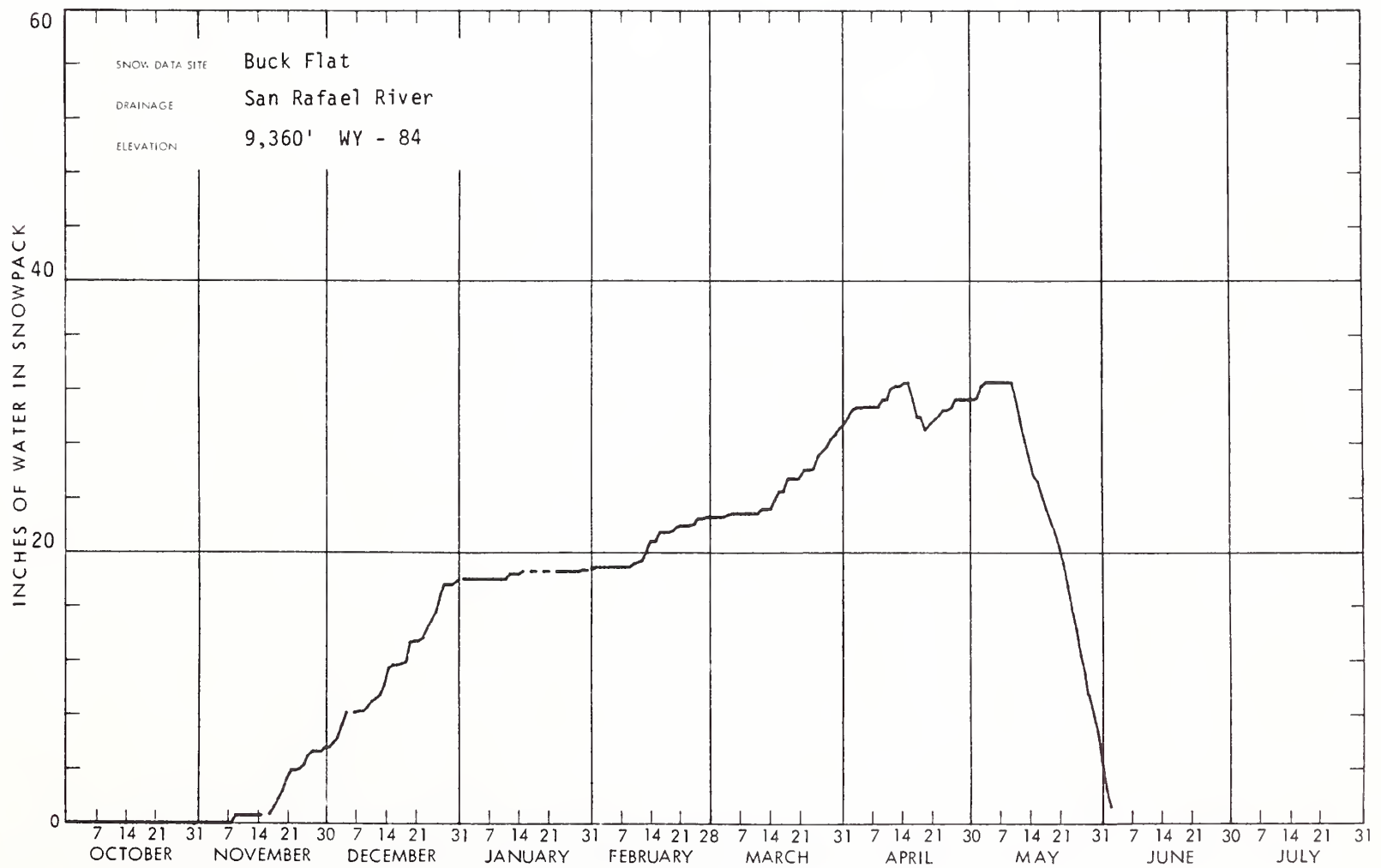
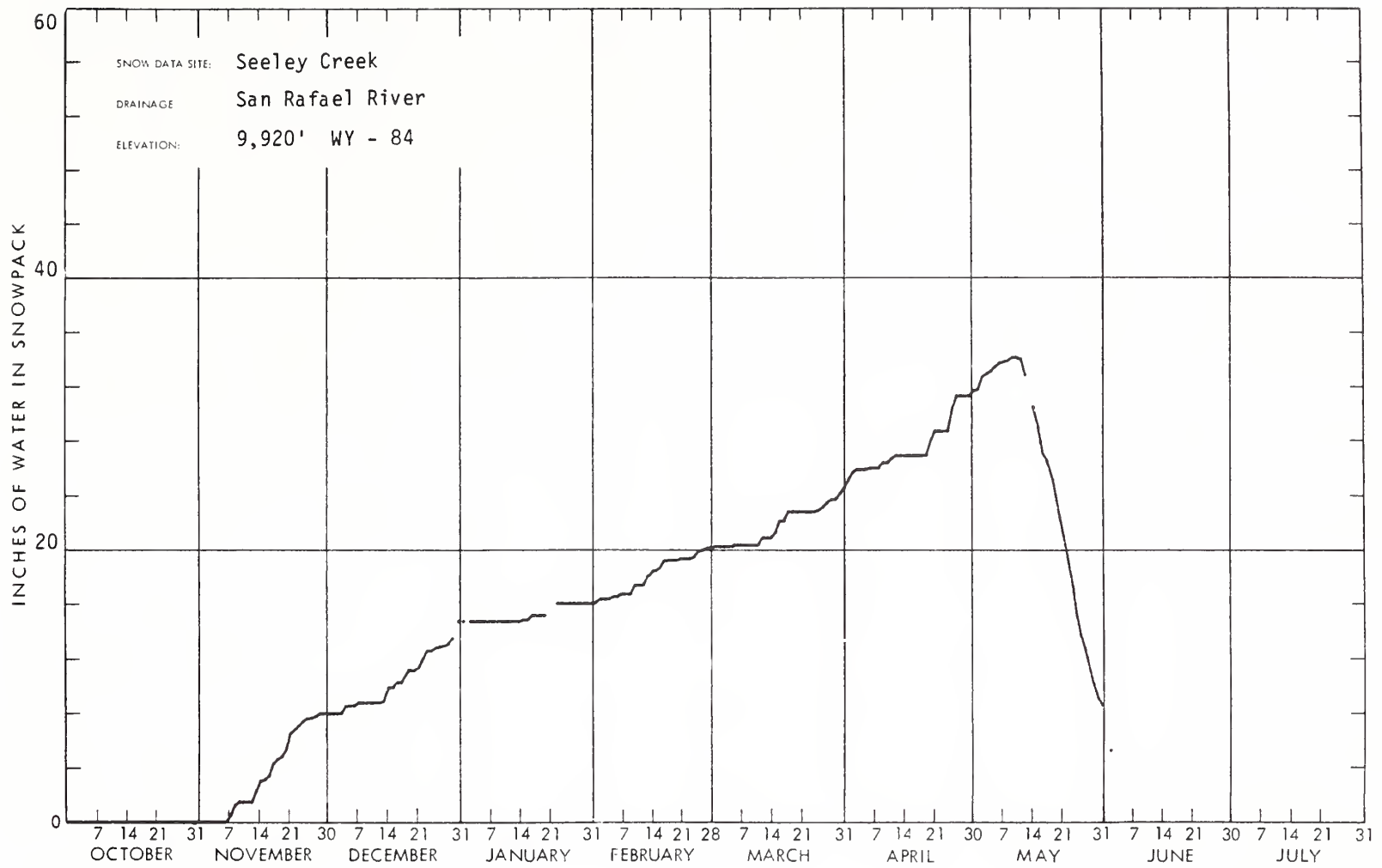


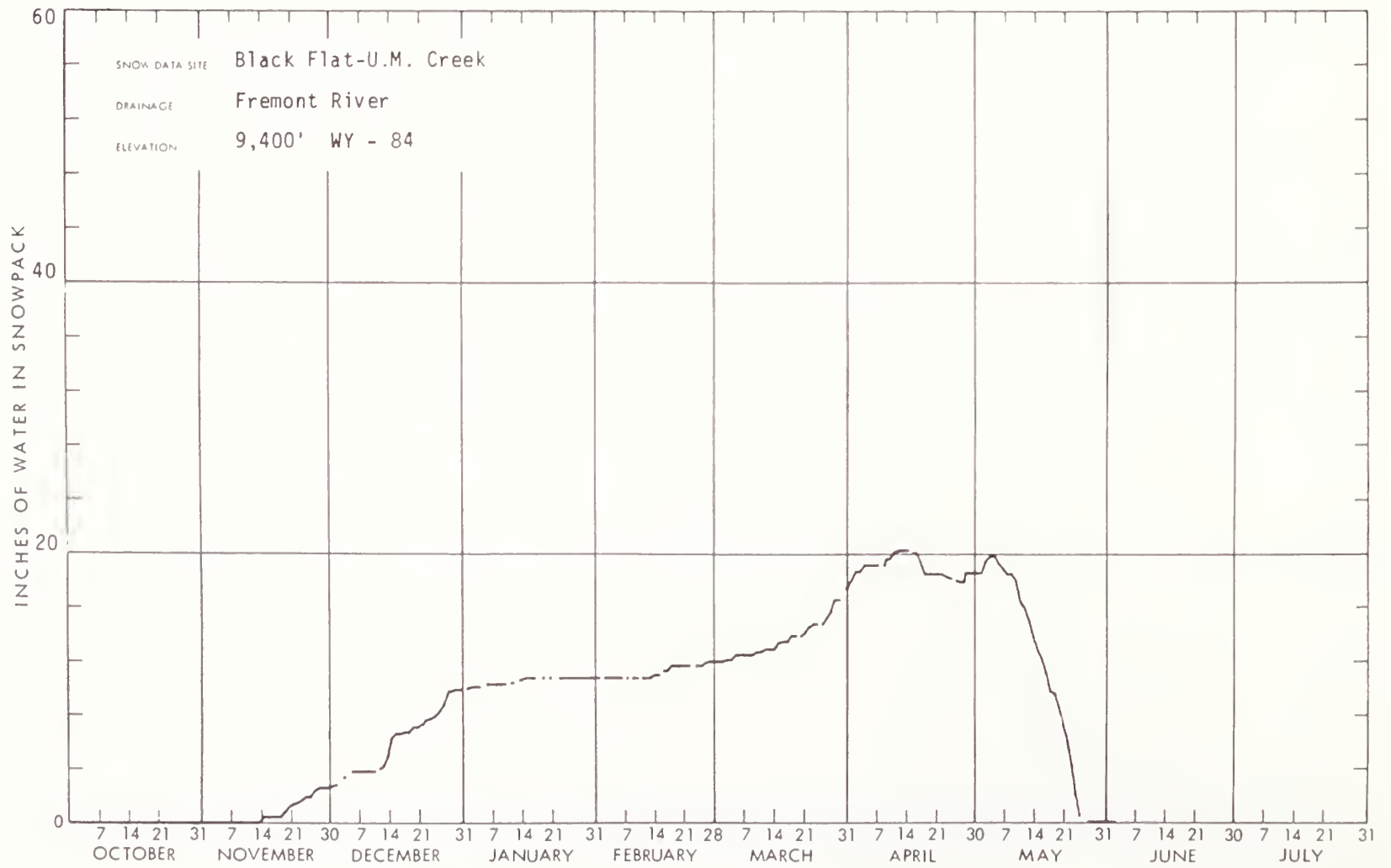
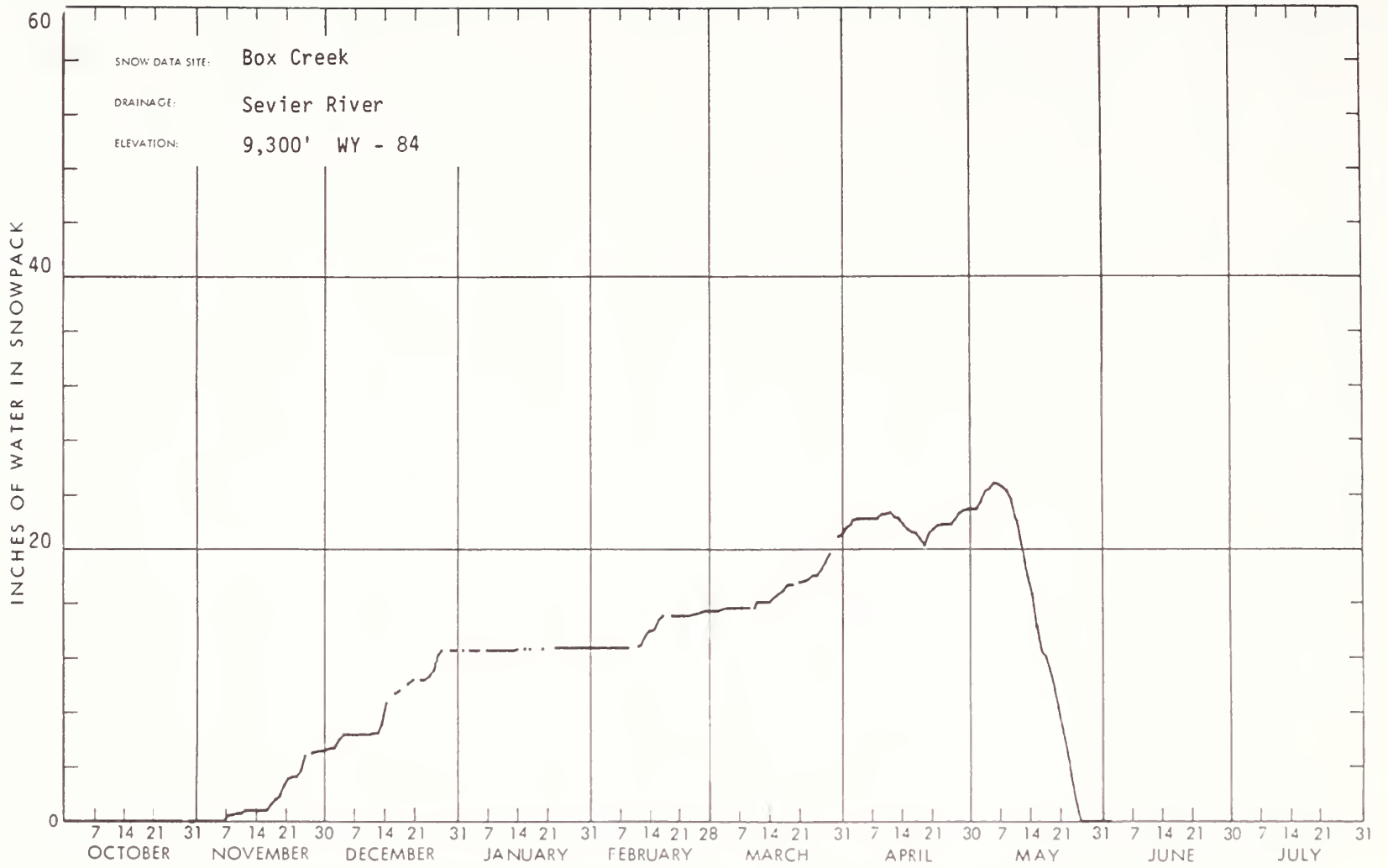


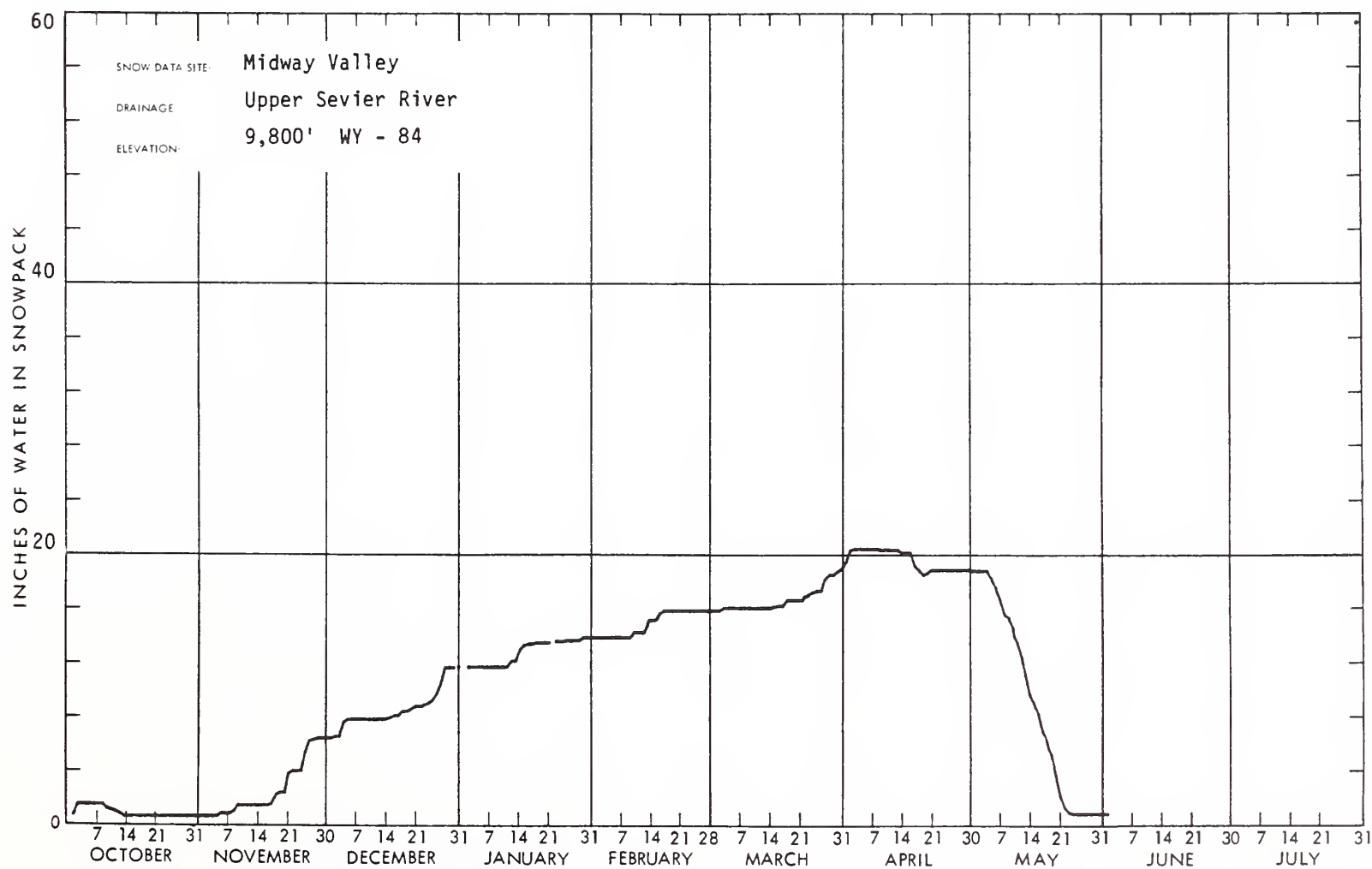
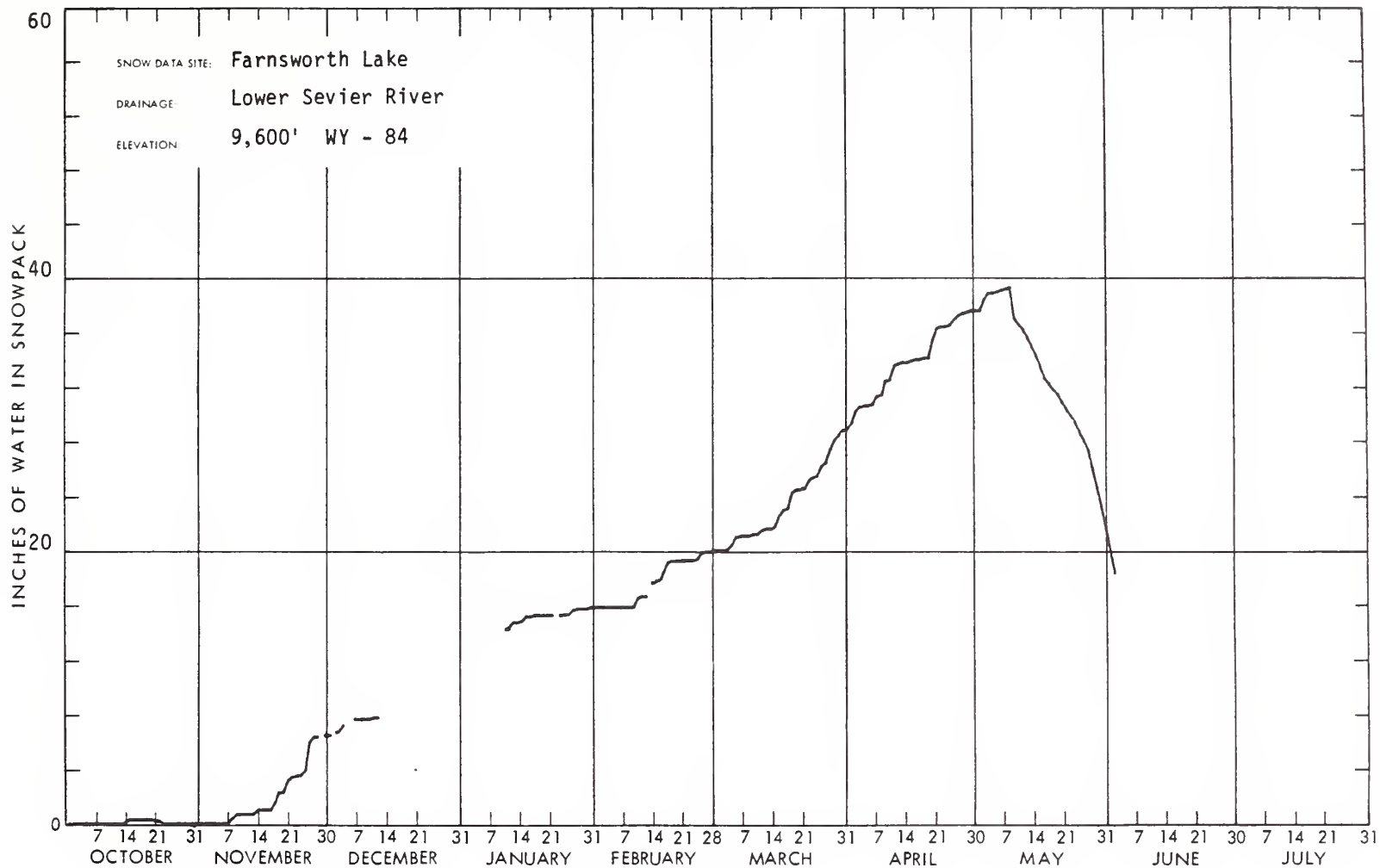


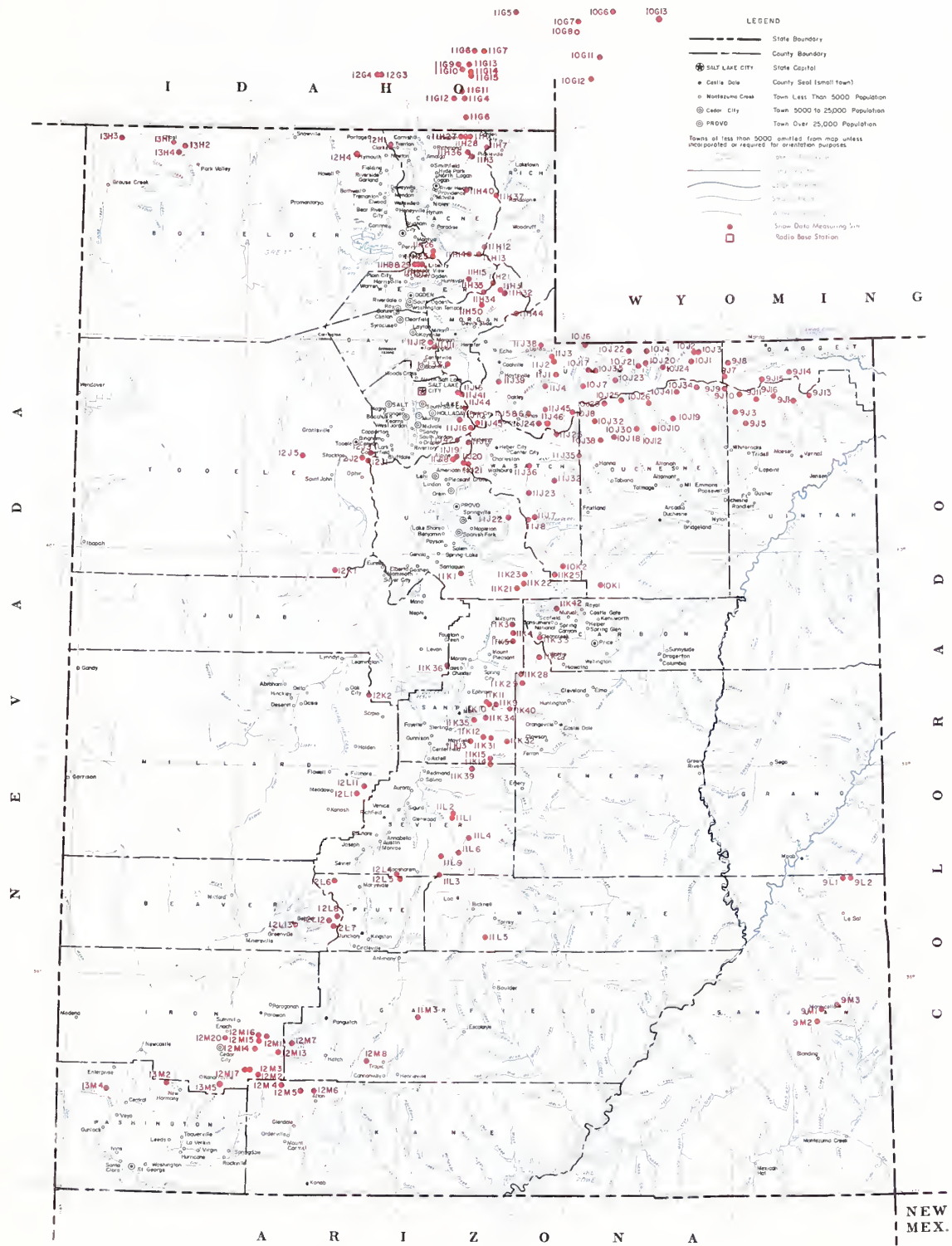












SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1983



USGS National Atlas 1:500,000 Series
Base map projection: NAD 83
For base map and information for SCS use

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
 - Soil Conservation Service
 - Forest Service
- U. S. Department of Commerce
 - NOAA, National Weather Service
- U. S. Department of Interior
 - Bureau of Reclamation
 - Geological Survey
 - National Park Service

STATE AGENCIES

- Utah State University
- Utah State Department of Natural Resources
 - Division of Wildlife Resources
 - Division of Water Resources
 - Division of Water Rights
 - Bear River Commissioner
 - Price River Commissioner
 - Provo River Commissioner
 - Sevier River Commissioners
 - Spanish Fork River Commissioner
 - Utah Lake and Jordan River Commissioner

MUNICIPALITIES

- Manti
- Salt Lake City

ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
FURNISHES THE BASIC DATA
NECESSARY FOR FORECASTING
WATER SUPPLY FOR IRRIGATION,
DOMESTIC AND MUNICIPAL WATER
SUPPLY, HYDRO-ELECTRIC POWER
GENERATION, NAVIGATION,
MINING AND INDUSTRY
OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

FIRST-CLASS MAIL
POSTAGE AND FEES PAID
USDA - SCS
SALT LAKE CITY, UTAH
PERMIT NO. G-267

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

NOVA

National Agricultural Library
Baltimore, MD 20705